

Product Definition Supplement

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Product Definition Supplement

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Part I. Herschel Products Definitions Tables

Tables with the description of the products that are currently implemented and generated by the Herschel Data Processing pipelines are provided in the following chapters.

Chapter 1. HIFI observation products

1.1. HIFI Level 0, 0.5 and 1 products

1.1.1. HIFI Product Level 0 - HRS Spectrum Dataset of type: tune

<i>product (type="herschel.ia.dataset.Product(HifiSpectrumDataset)", description="HRS Spectrum Dataset of type: tune")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of Channels")
LongParameter	subbandstart_1 (description="Starting channel for subband 1")
LongParameter	subbandstart_2 (description="Starting channel for subband 2")
LongParameter	subbandstart_3 (description="Starting channel for subband 3")
LongParameter	subbandstart_4 (description="Starting channel for subband 4")
LongParameter	subbandstart_5 (description="Starting channel for subband 5")
LongParameter	subbandstart_6 (description="Starting channel for subband 6")
LongParameter	subbandstart_7 (description="Starting channel for subband 7")
LongParameter	subbandstart_8 (description="Starting channel for subband 8")
StringParameter	rowflag_9 (description="No valid Chopper information. value = 512")
StringParameter	rowflag_10 (description="No valid Commanded Chopper information. value = 1024")
StringParameter	rowflag_11 (description="No valid Frequency Monitor information. value = 2048")
StringParameter	rowflag_12 (description="No valid LO code offset information. value = 4096")
StringParameter	rowflag_13 (description="No valid LO code main information. value = 8192")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
LongParameter	subbandlength_1 (description="Length of subband 1")
LongParameter	subbandlength_2 (description="Length of subband 2")

LongParameter	subbandlength_3 (description="Length of subband 3")
LongParameter	subbandlength_4 (description="Length of subband 4")
LongParameter	subbandlength_5 (description="Length of subband 5")
LongParameter	subbandlength_6 (description="Length of subband 6")
LongParameter	subbandlength_7 (description="Length of subband 7")
LongParameter	subbandlength_8 (description="Length of subband 8")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")

DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
StringParameter	fileName (description="filename for exporting purposes", quantity="degrees")
<i>Columns</i>	
<i>table dataset</i>	(name="0001", description="HRS Spectrum Dataset of type: tune")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of Channels")
LongParameter	subbandstart_1 (description="Starting channel for subband 1")
LongParameter	subbandstart_2 (description="Starting channel for subband 2")
LongParameter	subbandstart_3 (description="Starting channel for subband 3")
LongParameter	subbandstart_4 (description="Starting channel for subband 4")
LongParameter	subbandstart_5 (description="Starting channel for subband 5")
LongParameter	subbandstart_6 (description="Starting channel for subband 6")
LongParameter	subbandstart_7 (description="Starting channel for subband 7")
LongParameter	subbandstart_8 (description="Starting channel for subband 8")
StringParameter	rowflag_9 (description="No valid Chopper information. value = 512")

StringParameter	rowflag_10 (description="No valid Commanded Chopper information. value = 1024")
StringParameter	rowflag_11 (description="No valid Frequency Monitor information. value = 2048")
StringParameter	rowflag_12 (description="No valid LO code offset information. value = 4096")
StringParameter	rowflag_13 (description="No valid LO code main information. value = 8192")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
LongParameter	subbandlength_1 (description="Length of subband 1")
LongParameter	subbandlength_2 (description="Length of subband 2")
LongParameter	subbandlength_3 (description="Length of subband 3")
LongParameter	subbandlength_4 (description="Length of subband 4")
LongParameter	subbandlength_5 (description="Length of subband 5")
LongParameter	subbandlength_6 (description="Length of subband 6")
LongParameter	subbandlength_7 (description="Length of subband 7")
LongParameter	subbandlength_8 (description="Length of subband 8")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")

StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
<i>Columns</i>	
<i>Double2d</i>	CF (description="HRS Correlation factors (in counts)", quantity="1")
<i>Int1d</i>	bbtype (description="Building Block Type", quantity="none")
<i>Int1d</i>	bbnumber (description="Building Block Number", quantity="none")
<i>Int1d</i>	sequenceNumber (description="Integration Sequence Number", quantity="none")
<i>Int1d</i>	integrations (description="Number of Integrations", quantity="none")
<i>Int1d</i>	buffer (description="Integration Buffer", quantity="none")
<i>Int1d</i>	nrbytes (description="Number of Bytes", quantity="none")
<i>Int1d</i>	bitshift (description="Bit Shift", quantity="none")
<i>Long1d</i>	packetTime (description="Packetization Time", quantity="none")
<i>Long1d</i>	obsTime (description="Observation Time", quantity="none")
<i>Int1d</i>	rowflag (description="Dataframe Flag", quantity="none")

<i>Int1d</i>	df_transfer (description="DataFrame Transfer Counter", quantity="none")
<i>Double1d</i>	Chopper (description="Actual chopper positions", quantity="none")
<i>Double1d</i>	cmd_chopper (description="Commanded chopper positions", quantity="none")
<i>Bool1d</i>	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
<i>Double1d</i>	frequency_monitor (description="LSU Frequency Monitor", quantity="none")
<i>Int2d</i>	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")
<i>Bool2d</i>	blockselection (description="Block Selection", quantity="none")
<i>Int2d</i>	configuration (description="Configuration", quantity="none")
<i>Int2d</i>	duration (description="Integration Duration", quantity="none")
<i>Int2d</i>	offset (description="Offset", quantity="none")
<i>Int1d</i>	hk_transfer (description="hk_transfer", quantity="none")
<i>Int2d</i>	LO_S (description="Status of the LO : Locked (=1) / Unlocked (=0)", quantity="none")
<i>String1d</i>	Switch_S (description="Status of the input IF Switch : H/V", quantity="none")
<i>String1d</i>	Buffer_S (description="Buffer for ACS integration : BufferA/BufferB", quantity="none")
<i>String1d</i>	Unit_ID_S (description="Unit used : QM/FM", quantity="none")
<i>String1d</i>	Pol_S (description="Polar used : H/V", quantity="none")
<i>Double2d</i>	Attenuators (description="IRM attenuator values : 0-15.5 dB", quantity="dB")
<i>Double2d</i>	LO_F (description="LO Frequency values", quantity="MHz")
<i>Int2d</i>	LO_F_raw (description="LO Frequency raw values", quantity="MHz")
<i>Double1d</i>	DCDC_18P_C (description="DCDC current value for +18V", quantity="A")
<i>Double1d</i>	DCDC_8P_C (description="DCDC current value for +8V", quantity="A")
<i>Double1d</i>	DCDC_5P_C (description="DCDC current value for +5V", quantity="A")
<i>Double1d</i>	DCDC_3P3_C (description="DCDC current value for +3.3V", quantity="A")
<i>Double1d</i>	DCDC_1P1_C (description="DCDC current value for +1.1V", quantity="A")
<i>Double1d</i>	DCDC_5M_C (description="DCDC current value for -5V", quantity="A")
<i>Double2d</i>	DCDC_T (description="DCDC Temperature values", quantity="degC")
<i>Double1d</i>	ACS_18P_V (description="ACS voltage for +18V", quantity="V")
<i>Double1d</i>	ACS_8P_V (description="ACS voltage for +8V", quantity="V")
<i>Double1d</i>	ACS_5P_V (description="ACS voltage for +5V", quantity="V")

<i>Double1d</i>	ACS_Dig_3P3_V (description="ACS voltage for +3.3V (digital)", quantity="V")
<i>Double1d</i>	ACS_Ana_1P1_V (description="ACS voltage for +1.1V (analog)", quantity="V")
<i>Double1d</i>	ACS_5M_V (description="ACS voltage for -5V", quantity="V")
<i>Double1d</i>	ACS_Ana_1_3P3_V (description="ACS voltage for +3.3V (analog1)", quantity="V")
<i>Double1d</i>	ACS_Ana_2_3P3_V (description="ACS voltage for +3.3V (analog2)", quantity="V")
<i>Double2d</i>	ACS_T (description="ACS Temperature values", quantity="degC")
<i>Double1d</i>	IF_18P_V (description="IF voltage for +18V", quantity="V")
<i>Double1d</i>	IF_8P_V (description="IF voltage for +8V", quantity="V")
<i>Double1d</i>	IF_5P_V (description="IF voltage for +5V", quantity="V")
<i>Double1d</i>	IF_5M_V (description="IF voltage for -5V", quantity="V")
<i>Double1d</i>	IF_6P_V (description="IF voltage for +6V", quantity="V")
<i>Double2d</i>	IF_T (description="IF Temperature values", quantity="degC")
<i>Double2d</i>	hot_cold (description="Hot and cold temperatures of the Blackbody Calibrator", quantity="K")
<i>Double1d</i>	MJC_Hor (description="Calibrated mixer junction current, horizontal band 1", quantity="mA")
<i>Double1d</i>	MJC_Ver (description="Calibrated mixer junction current, vertical band 1", quantity="mA")
<i>Double1d</i>	LoFrequency (description="Local Oscillator Frequency", quantity="GHz")
<i>Double1d</i>	longitude (description="longitude (RA in equatorial coord)", quantity="deg")
<i>Double1d</i>	latitude (description="latitude (Decl in equatorial coord)", quantity="deg")
<i>Double1d</i>	posAngle (description="Position Angle", quantity="deg")
<i>Double1d</i>	longitudeError (description="longitude errors", quantity="arcsec")
<i>Double1d</i>	latitudeError (description="latitude errors", quantity="arcsec")
<i>Double1d</i>	posAngleError (description="Position Angle errors", quantity="arcsec")
<i>Double1d</i>	longitude_cmd (description="longitude (RA in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	latitude_cmd (description="latitude (Decl in equatorial coord) average H and V", quantity="deg")
<i>Int1d</i>	rasterLineNum (description="Raster line number", quantity="1")
<i>Int1d</i>	rasterColumnNum (description="Raster Column number", quantity="1")
<i>Int1d</i>	scanLineNum (description="Scan line number", quantity="1")
<i>Int1d</i>	nodCycleNum (description="Switching/nodding cycle number", quantity="1")
<i>Int1d</i>	customMapPointNum (description="Custom map pointing number", quantity="1")

1.1.2. HIFI Product Level 0 - Level 0 Quality Product: Command Failures

<i>product</i> (type="CommandFailureProduct", description="Level 0 Quality Product: Command Failures")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	version (description="Version of this product")
LongParameter	commandAcceptanceFailures (description="Max number of command acceptance failures")
LongParameter	commandExecutionFailures (description="Max number of command execution failures")
LongParameter	obsid (description="Observation Identifier")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted")
<i>Columns</i>	
<i>table dataset</i>	(name="CommandFailure", description="Level 0 Quality Product: Command Failures")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	commandAcceptanceFailures (description="Max number of command acceptance failures")
LongParameter	commandExecutionFailures (description="Max number of command execution failures")
LongParameter	obsid (description="Observation Identifier")
LongParameter	version (description="Version of this product")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted")

Columns			
StringId	ErrorType	(description="null", quantity="none")	
StringId	Time	(description="null", quantity="none")	
StringId	ErrorCode	(description="null", quantity="none")	
LongId	OBS_ID	(description="null", quantity="none")	
LongId	BB_ID	(description="null", quantity="none")	
LongId	BBType	(description="null", quantity="none")	
LongId	BBCount	(description="null", quantity="none")	

1.1.3. HIFI Product Level 0 - Level 0 Quality Product: Runtime errors

<i>product (type="RuntimeErrorProduct", description="Level 0 Quality Product: Runtime errors")</i>			
Metadata			
StringParameter	type	(description="Product Type Identification")	
StringParameter	creator	(description="Generator of this product")	
DateParameter	creationDate	(description="Creation date of this product")	
StringParameter	description	(description="Name of this product")	
StringParameter	instrument	(description="Instrument attached to this product")	
StringParameter	modelName	(description="Model name attached to this product")	
DateParameter	startDate	(description="Start date of this product")	
DateParameter	endDate	(description="End date of this product")	
StringParameter	formatVersion	(description="Version of product format")	
LongParameter	version	(description="Version of this product")	
LongParameter	runtimeErrors	(description="Max number of TM Runtime error found")	
LongParameter	obsid	(description="Observation Identifier")	
StringParameter	orbitEphemerisSourceFile	(description="Name of the file from where data was extracted")	
Columns			
<i>table dataset (name="RuntimeError", description="Level 0 Quality Product: Runtime errors")</i>			
Metadata			
StringParameter	type	(description="Product Type Identification")	
StringParameter	creator	(description="Generator of this product")	
DateParameter	creationDate	(description="Creation date of this product")	
StringParameter	description	(description="Name of this product")	
StringParameter	instrument	(description="Instrument attached to this product")	
StringParameter	modelName	(description="Model name attached to this product")	
DateParameter	startDate	(description="Start date of this product")	
DateParameter	endDate	(description="End date of this product")	
StringParameter	formatVersion	(description="Version of product format")	
LongParameter	runtimeErrors	(description="Max number of TM Runtime error found")	

LongParameter	obsid (description="Observation Identifier")
LongParameter	version (description="Version of this product")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted")
<i>Columns</i>	

1.1.4. HIFI Product Level 0 - Level 0 Quality Product

<i>product (type="QHtpLevel0", description="Level 0 Quality Product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	version (description="Version of this product")
LongParameter	obsid (description="Observation Identifier")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	unalignedHKdata (description="Max percentage of Dataframes which have unaligned HK")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted")
<i>Columns</i>	
<i>table dataset (name="DFQuality", description="Level 0 Quality Product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	obsid (description="Observation Identifier")
LongParameter	version (description="Version of this product")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	unalignedHKdata (description="Max percentage of Dataframes which have unaligned HK")

StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted")
Columns	
Int1d	dataset (description="dataset id, corresponding the the dataset in the HTP", quantity="none")
String1d	type (description="category of the Bbid", quantity="none")
Int1d	Bbid (description="Building Block", quantity="none")
Int1d	start (description="Start index for each block", quantity="none")
Int1d	length (description="Length of each block", quantity="none")
Int1d	unalignedHKdata (description="UNALIGNED_HK", quantity="none")
Int1d	noChopperHKdata (description="NOCHOPPER", quantity="none")
Int1d	noCommandedChopperHKdata (description="NOCOMCHOP", quantity="none")
Int1d	noFrequencyMonitorHKdata (description="NOFREQMON", quantity="none")
Int1d	noLoCodeOffsetHKdata (description="NOLCOFFS", quantity="none")
Int1d	noLoCodeMainHKdata (description="NOLCMAIN", quantity="none")
Int1d	bbidCorrection (description="BBID_CORRECTION", quantity="none")
Int1d	zeroesInCF (description="ZEROES_IN_CF", quantity="none")

1.1.5. HIFI Product Level 0 - Level 0 Quality Product: Dataframe count

<i>product (type="DataframeCountQualityProduct", description="Level 0 Quality Product: Dataframe count")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	version (description="Version of this product")
LongParameter	Obsid (description="null")
LongParameter	Apid (description="null")
StringParameter	Mode (description="null")
LongParameter	HIFI Dataframes (description="null")

LongParameter	DownlinkDFPackets (description="null")
LongParameter	UplinkExpectedDFs (description="null")
LongParameter	obsid (description="Observation Identifier")
LongParameter	apid (description="Application Programme Identifier")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted")
Columns	
table dataset	(name="DataframeCount", description="Level 0 Quality Product: Dataframe count")
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	Obsid (description="null")
LongParameter	Apid (description="null")
StringParameter	Mode (description="null")
LongParameter	HIFI Dataframes (description="null")
LongParameter	DownlinkDFPackets (description="null")
LongParameter	UplinkExpectedDFs (description="null")
LongParameter	obsid (description="Observation Identifier")
LongParameter	version (description="Version of this product")
LongParameter	apid (description="Application Programme Identifier")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted")
Columns	
LongId	BBType (description="null", quantity="none")
LongId	uplinkHrsH (description="null", quantity="none")
LongId	downlinkHrsH (description="null", quantity="none")

1.1.6. HIFI Product Level 0 - Level 0 Quality Product: Dataframe count

<i>product</i> (type="DataframeCountQualityProduct", description="Level 0 Quality Product: Dataframe count")	
Metadata	
StringParameter	type (description="Product Type Identification")

StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	version (description="Version of this product")
LongParameter	Obsid (description="null")
LongParameter	Apid (description="null")
StringParameter	Mode (description="null")
LongParameter	HIFI Dataframes (description="null")
LongParameter	DownlinkDFPackets (description="null")
LongParameter	UplinkExpectedDFs (description="null")
LongParameter	obsid (description="Observation Identifier")
LongParameter	apid (description="Application Programme Identifier")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted")
<i>Columns</i>	
<i>table dataset</i>	(name="DataframeCount", description="Level 0 Quality Product: Dataframe count")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	Obsid (description="null")
LongParameter	Apid (description="null")
StringParameter	Mode (description="null")
LongParameter	HIFI Dataframes (description="null")
LongParameter	DownlinkDFPackets (description="null")
LongParameter	UplinkExpectedDFs (description="null")
LongParameter	obsid (description="Observation Identifier")
LongParameter	version (description="Version of this product")
LongParameter	apid (description="Application Programme Identifier")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted")

<i>Columns</i>	
<i>LongId</i>	BBType (description="null", quantity="none")
<i>LongId</i>	uplinkHrsV (description="null", quantity="none")
<i>LongId</i>	downlinkHrsV (description="null", quantity="none")

1.1.7. HIFI Product Level 0 - Level 0 Quality Product: Dataframe count

<i>product (type="DataframeCountQualityProduct", description="Level 0 Quality Product: Dataframe count")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	version (description="Version of this product")
LongParameter	Obsid (description="null")
LongParameter	Apid (description="null")
StringParameter	Mode (description="null")
LongParameter	HIFI Dataframes (description="null")
LongParameter	DownlinkDFPackets (description="null")
LongParameter	UplinkExpectedDFs (description="null")
LongParameter	obsid (description="Observation Identifier")
LongParameter	apid (description="Application Programme Identifier")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted")
<i>Columns</i>	
<i>table dataset</i>	<i>(name="DataframeCount", description="Level 0 Quality Product: Dataframe count")</i>
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")

DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	Obsid (description="null")
LongParameter	Apid (description="null")
StringParameter	Mode (description="null")
LongParameter	HIFI Dataframes (description="null")
LongParameter	DownlinkDFPackets (description="null")
LongParameter	UplinkExpectedDFs (description="null")
LongParameter	obsid (description="Observation Identifier")
LongParameter	version (description="Version of this product")
LongParameter	apid (description="Application Programme Identifier")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted")
<i>Columns</i>	
<i>LongId</i>	BBType (description="null", quantity="none")
<i>LongId</i>	uplinkWbsH (description="null", quantity="none")
<i>LongId</i>	downlinkWbsH (description="null", quantity="none")

1.1.8. HIFI Product Level 0 - Level 0 Quality Product: Dataframe count

<i>product (type="DataframeCountQualityProduct", description="Level 0 Quality Product: Dataframe count")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	version (description="Version of this product")
LongParameter	Obsid (description="null")
LongParameter	Apid (description="null")
StringParameter	Mode (description="null")
LongParameter	HIFI Dataframes (description="null")
LongParameter	DownlinkDFPackets (description="null")
LongParameter	UplinkExpectedDFs (description="null")
LongParameter	obsid (description="Observation Identifier")
LongParameter	apid (description="Application Programme Identifier")

StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted")		
Columns			
table dataset	(name="DataframeCount", description="Level 0 Quality Product: Dataframe count")		
Metadata			
StringParameter	type (description="Product Type Identification")		
StringParameter	creator (description="Generator of this product")		
DateParameter	creationDate (description="Creation date of this product")		
StringParameter	description (description="Name of this product")		
StringParameter	instrument (description="Instrument attached to this product")		
StringParameter	modelName (description="Model name attached to this product")		
DateParameter	startDate (description="Start date of this product")		
DateParameter	endDate (description="End date of this product")		
StringParameter	formatVersion (description="Version of product format")		
LongParameter	Obsid (description="null")		
LongParameter	Apid (description="null")		
StringParameter	Mode (description="null")		
LongParameter	HIFI Dataframes (description="null")		
LongParameter	DownlinkDFPackets (description="null")		
LongParameter	UplinkExpectedDFs (description="null")		
LongParameter	obsid (description="Observation Identifier")		
LongParameter	version (description="Version of this product")		
LongParameter	apid (description="Application Programme Identifier")		
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted")		
Columns			
	LongId	BBType (description="null", quantity="none")	
	LongId	uplinkWbsV (description="null", quantity="none")	
	LongId	downlinkWbsV (description="null", quantity="none")	

1.1.9. HIFI Product Level 0 - WBS Spectrum Dataset of type: tune

<i>product (type="herschel.ia.dataset.Product(HifiSpectrumDataset)", description="WBS Spectrum Dataset of type: tune")</i>			
Metadata			
StringParameter	type (description="Product Type Identification")		
StringParameter	creator (description="Generator of this product")		
DateParameter	creationDate (description="Creation date of this product")		
StringParameter	description (description="Name of this product")		
StringParameter	instrument (description="Instrument attached to this product")		

StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of Channels")
LongParameter	subbandstart_1 (description="Starting channel for subband 1")
LongParameter	subbandstart_2 (description="Starting channel for subband 2")
LongParameter	subbandstart_3 (description="Starting channel for subband 3")
LongParameter	subbandstart_4 (description="Starting channel for subband 4")
LongParameter	subbandlength_1 (description="Length of subband 1")
LongParameter	subbandlength_2 (description="Length of subband 2")
LongParameter	subbandlength_3 (description="Length of subband 3")
LongParameter	subbandlength_4 (description="Length of subband 4")
StringParameter	rowflag_9 (description="No valid Chopper information. value = 512")
StringParameter	rowflag_10 (description="No valid Commanded Chopper information. value = 1024")
StringParameter	rowflag_11 (description="No valid Frequency Monitor information. value = 2048")
StringParameter	rowflag_12 (description="No valid LO code offset information. value = 4096")
StringParameter	rowflag_13 (description="No valid LO code main information. value = 8192")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")

StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
StringParameter	fileName (description="filename for exporting purposes", quantity="degrees")
<i>Columns</i>	
<i>table dataset</i>	(name="0001", description="WBS Spectrum Dataset of type: tune")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")

StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of Channels")
LongParameter	subbandstart_1 (description="Starting channel for subband 1")
LongParameter	subbandstart_2 (description="Starting channel for subband 2")
LongParameter	subbandstart_3 (description="Starting channel for subband 3")
LongParameter	subbandstart_4 (description="Starting channel for subband 4")
LongParameter	subbandlength_1 (description="Length of subband 1")
LongParameter	subbandlength_2 (description="Length of subband 2")
LongParameter	subbandlength_3 (description="Length of subband 3")
LongParameter	subbandlength_4 (description="Length of subband 4")
StringParameter	rowflag_9 (description="No valid Chopper information. value = 512")
StringParameter	rowflag_10 (description="No valid Commanded Chopper information. value = 1024")
StringParameter	rowflag_11 (description="No valid Frequency Monitor information. value = 2048")
StringParameter	rowflag_12 (description="No valid LO code offset information. value = 4096")
StringParameter	rowflag_13 (description="No valid LO code main information. value = 8192")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
QuantifiableParameter	waveunit (description="Units of the WaveColumn")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")

StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
<i>Columns</i>	
<i>Double2d</i>	flux (description="WBS flux (in counts)", quantity="none")

<i>Int1d</i>	bbtype (description="Building Block Type", quantity="none")
<i>Int1d</i>	bbnumber (description="Building Block Number", quantity="none")
<i>Int1d</i>	sequenceNumber (description="Integration Sequence Number", quantity="none")
<i>Int1d</i>	integrations (description="Number of Integrations", quantity="none")
<i>Int1d</i>	buffer (description="Integration Buffer", quantity="none")
<i>Int1d</i>	nrbytes (description="Number of Bytes", quantity="none")
<i>Int1d</i>	bitshift (description="Bit Shift", quantity="none")
<i>Long1d</i>	packetTime (description="Packetization Time", quantity="none")
<i>Long1d</i>	obsTime (description="Observation Time", quantity="none")
<i>Int1d</i>	rowflag (description="Dataframe Flag", quantity="none")
<i>Int1d</i>	df_transfer (description="DataFrame Transfer Counter", quantity="none")
<i>Double1d</i>	Chopper (description="Actual chopper positions", quantity="none")
<i>Double1d</i>	cmd_chopper (description="Commanded chopper positions", quantity="none")
<i>Bool1d</i>	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
<i>Double1d</i>	frequency_monitor (description="LSU Frequency Monitor", quantity="none")
<i>Int2d</i>	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")
<i>Int1d</i>	scancount (description="Integrated Scan Count", quantity="none")
<i>Double3d</i>	dark (description="Dark Current Data", quantity="none")
<i>Double2d</i>	channels (description="Channel", quantity="pixel")
<i>Int1d</i>	hk_transfer (description="hk_transfer", quantity="none")
<i>Int2d</i>	Band_ATT (description="null", quantity="none")
<i>Int1d</i>	IN_ATT (description="null", quantity="none")
<i>Double2d</i>	hot_cold (description="Hot and cold temperatures of the Blackbody Calibrator", quantity="K")
<i>Double1d</i>	MJC_Hor (description="Calibrated mixer junction current, horizontal band 1", quantity="mA")
<i>Double1d</i>	MJC_Ver (description="Calibrated mixer junction current, vertical band 1", quantity="mA")
<i>Double1d</i>	LoFrequency (description="Local Oscillator Frequency", quantity="GHz")
<i>Double1d</i>	longitude (description="longitude (RA in equatorial coord)", quantity="deg")
<i>Double1d</i>	latitude (description="latitude (Decl in equatorial coord)", quantity="deg")
<i>Double1d</i>	posAngle (description="Position Angle", quantity="deg")
<i>Double1d</i>	longitudeError (description="longitude errors", quantity="arcsec")
<i>Double1d</i>	latitudeError (description="latitude errors", quantity="arcsec")
<i>Double1d</i>	posAngleError (description="Position Angle errors", quantity="arcsec")

<i>Double1d</i>	longitude_cmd (description="longitude (RA in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	latitude_cmd (description="latitude (Decl in equatorial coord) average H and V", quantity="deg")
<i>Int1d</i>	rasterLineNum (description="Raster line number", quantity="1")
<i>Int1d</i>	rasterColumnNum (description="Raster Column number", quantity="1")
<i>Int1d</i>	scanLineNum (description="Scan line number", quantity="1")
<i>Int1d</i>	nodCycleNum (description="Switching/nodding cycle number", quantity="1")
<i>Int1d</i>	customMapPointNum (description="Custom map pointing number", quantity="1")
<i>Int2d</i>	badLo (description="bit 0=Bad LO; bit 1=Weak_spur; bit 2=Strong_spur; bit 3=Strong_instability; bit 4=IF_saturation;", quantity="none")

1.1.10. HIFI Product Level 1 - HRS Spectrum Dataset of type: tune

<i>product (type="herschel.ia.dataset.Product(HifiSpectrumDataset)", description="HRS Spectrum Dataset of type: tune")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of Channels")
StringParameter	rowflag_9 (description="No valid Chopper information. value = 512")
StringParameter	rowflag_10 (description="No valid Commanded Chopper information. value = 1024")
StringParameter	rowflag_11 (description="No valid Frequency Monitor information. value = 2048")
StringParameter	rowflag_12 (description="No valid LO code offset information. value = 4096")
StringParameter	rowflag_13 (description="No valid LO code main information. value = 8192")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")

LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")

BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	Valid (description="HRS spectrum contains at least one subband", quantity="degrees")
LongParameter	subbands (description="Number of subbands", quantity="degrees")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="degrees")
StringParameter	wavename (description="Actual name of the WaveColumn", quantity="degrees")
DoubleParameter	channelSpacing (description="Delta of frequency in MHz between 2 points of a HRS spectrum", quantity="MHz")
DoubleParameter	resolution (description="HRS resolution when a Hanning windowing is used, i.e. the channelSpacing * 2", quantity="MHz")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="MHz")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="MHz")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="MHz")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="MHz")
LongParameter	subbandstart_3 (description="Starting channel for subband 3", quantity="MHz")
LongParameter	subbandlength_3 (description="Length of subband 3", quantity="MHz")
LongParameter	subbandstart_4 (description="Starting channel for subband 4", quantity="MHz")
LongParameter	subbandlength_4 (description="Length of subband 4", quantity="MHz")
LongParameter	subbandstart_5 (description="Starting channel for subband 5", quantity="MHz")
LongParameter	subbandlength_5 (description="Length of subband 5", quantity="MHz")
LongParameter	subbandstart_6 (description="Starting channel for subband 6", quantity="MHz")
LongParameter	subbandlength_6 (description="Length of subband 6", quantity="MHz")
LongParameter	subbandstart_7 (description="Starting channel for subband 7", quantity="MHz")
LongParameter	subbandlength_7 (description="Length of subband 7", quantity="MHz")
LongParameter	subbandstart_8 (description="Starting channel for subband 8", quantity="MHz")
LongParameter	subbandlength_8 (description="Length of subband 8", quantity="MHz")
LongParameter	subbandstart_9 (description="Starting channel for subband 9", quantity="MHz")

LongParameter	subbandlength_9 (description="Length of subband 9", quantity="MHz")
LongParameter	subbandstart_10 (description="Starting channel for subband 10", quantity="MHz")
LongParameter	subbandlength_10 (description="Length of subband 10", quantity="MHz")
LongParameter	subbandstart_11 (description="Starting channel for subband 11", quantity="MHz")
LongParameter	subbandlength_11 (description="Length of subband 11", quantity="MHz")
LongParameter	subbandstart_12 (description="Starting channel for subband 12", quantity="MHz")
LongParameter	subbandlength_12 (description="Length of subband 12", quantity="MHz")
LongParameter	subbandstart_13 (description="Starting channel for subband 13", quantity="MHz")
LongParameter	subbandlength_13 (description="Length of subband 13", quantity="MHz")
LongParameter	subbandstart_14 (description="Starting channel for subband 14", quantity="MHz")
LongParameter	subbandlength_14 (description="Length of subband 14", quantity="MHz")
LongParameter	subbandstart_15 (description="Starting channel for subband 15", quantity="MHz")
LongParameter	subbandlength_15 (description="Length of subband 15", quantity="MHz")
LongParameter	subbandstart_16 (description="Starting channel for subband 16", quantity="MHz")
LongParameter	subbandlength_16 (description="Length of subband 16", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="MHz")
DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="MHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
StringParameter	fileName (description="filename for exporting purposes", quantity="m2")
<i>Columns</i>	
<i>table dataset</i>	(name="0001", description="HRS Spectrum Dataset of type: tune")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")

LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of Channels")
StringParameter	rowflag_9 (description="No valid Chopper information. value = 512")
StringParameter	rowflag_10 (description="No valid Commanded Chopper information. value = 1024")
StringParameter	rowflag_11 (description="No valid Frequency Monitor information. value = 2048")
StringParameter	rowflag_12 (description="No valid LO code offset information. value = 4096")
StringParameter	rowflag_13 (description="No valid LO code main information. value = 8192")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")

DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	Valid (description="HRS spectrum contains at least one subband", quantity="degrees")
LongParameter	subbands (description="Number of subbands", quantity="degrees")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="degrees")
StringParameter	wavename (description="Actual name of the WaveColumn", quantity="degrees")
DoubleParameter	channelSpacing (description="Delta of frequency in MHz between 2 points of a HRS spectrum", quantity="MHz")
DoubleParameter	resolution (description="HRS resolution when a Hanning windowing is used, i.e. the channelSpacing * 2", quantity="MHz")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="MHz")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="MHz")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="MHz")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="MHz")

LongParameter	subbandstart_3 (description="Starting channel for subband 3", quantity="MHz")
LongParameter	subbandlength_3 (description="Length of subband 3", quantity="MHz")
LongParameter	subbandstart_4 (description="Starting channel for subband 4", quantity="MHz")
LongParameter	subbandlength_4 (description="Length of subband 4", quantity="MHz")
LongParameter	subbandstart_5 (description="Starting channel for subband 5", quantity="MHz")
LongParameter	subbandlength_5 (description="Length of subband 5", quantity="MHz")
LongParameter	subbandstart_6 (description="Starting channel for subband 6", quantity="MHz")
LongParameter	subbandlength_6 (description="Length of subband 6", quantity="MHz")
LongParameter	subbandstart_7 (description="Starting channel for subband 7", quantity="MHz")
LongParameter	subbandlength_7 (description="Length of subband 7", quantity="MHz")
LongParameter	subbandstart_8 (description="Starting channel for subband 8", quantity="MHz")
LongParameter	subbandlength_8 (description="Length of subband 8", quantity="MHz")
LongParameter	subbandstart_9 (description="Starting channel for subband 9", quantity="MHz")
LongParameter	subbandlength_9 (description="Length of subband 9", quantity="MHz")
LongParameter	subbandstart_10 (description="Starting channel for subband 10", quantity="MHz")
LongParameter	subbandlength_10 (description="Length of subband 10", quantity="MHz")
LongParameter	subbandstart_11 (description="Starting channel for subband 11", quantity="MHz")
LongParameter	subbandlength_11 (description="Length of subband 11", quantity="MHz")
LongParameter	subbandstart_12 (description="Starting channel for subband 12", quantity="MHz")
LongParameter	subbandlength_12 (description="Length of subband 12", quantity="MHz")
LongParameter	subbandstart_13 (description="Starting channel for subband 13", quantity="MHz")
LongParameter	subbandlength_13 (description="Length of subband 13", quantity="MHz")
LongParameter	subbandstart_14 (description="Starting channel for subband 14", quantity="MHz")
LongParameter	subbandlength_14 (description="Length of subband 14", quantity="MHz")

LongParameter	subbandstart_15 (description="Starting channel for subband 15", quantity="MHz")
LongParameter	subbandlength_15 (description="Length of subband 15", quantity="MHz")
LongParameter	subbandstart_16 (description="Starting channel for subband 16", quantity="MHz")
LongParameter	subbandlength_16 (description="Length of subband 16", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="MHz")
DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="MHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
<i>Columns</i>	
<i>Int1d</i>	bbtype (description="Building Block Type", quantity="none")
<i>Int1d</i>	bbnumber (description="Building Block Number", quantity="none")
<i>Int1d</i>	sequenceNumber (description="Integration Sequence Number", quantity="none")
<i>Int1d</i>	integrations (description="Number of Integrations", quantity="none")
<i>Int1d</i>	buffer (description="Integration Buffer", quantity="none")
<i>Int1d</i>	nrbytes (description="Number of Bytes", quantity="none")
<i>Int1d</i>	bitshift (description="Bit Shift", quantity="none")
<i>Long1d</i>	packetTime (description="Packetization Time", quantity="none")
<i>Long1d</i>	obsTime (description="Observation Time", quantity="none")
<i>Int1d</i>	rowflag (description="Dataframe Flag", quantity="none")
<i>Int1d</i>	df_transfer (description="DataFrame Transfer Counter", quantity="none")
<i>Double1d</i>	Chopper (description="Actual chopper positions", quantity="none")
<i>Double1d</i>	cmd_chopper (description="Commanded chopper positions", quantity="none")
<i>Bool1d</i>	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
<i>Double1d</i>	frequency_monitor (description="LSU Frequency Monitor", quantity="none")
<i>Int2d</i>	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")
<i>Bool2d</i>	blockselection (description="Block Selection", quantity="none")
<i>Int2d</i>	duration (description="Integration Duration", quantity="none")
<i>Int1d</i>	hk_transfer (description="hk_transfer", quantity="none")

<i>Int2d</i>	LO_S (description="Status of the LO : Locked (=1) / Unlocked (=0)", quantity="none")
<i>String1d</i>	Switch_S (description="Status of the input IF Switch : H/V", quantity="none")
<i>String1d</i>	Buffer_S (description="Buffer for ACS integration : BufferA/BufferB", quantity="none")
<i>String1d</i>	Unit_ID_S (description="Unit used : QM/FM", quantity="none")
<i>String1d</i>	Pol_S (description="Polar used : H/V", quantity="none")
<i>Double2d</i>	Attenuators (description="IRM attenuator values : 0-15.5 dB", quantity="dB")
<i>Double2d</i>	LO_F (description="LO Frequency values", quantity="MHz")
<i>Int2d</i>	LO_F_raw (description="LO Frequency raw values", quantity="MHz")
<i>Double1d</i>	DCDC_18P_C (description="DCDC current value for +18V", quantity="A")
<i>Double1d</i>	DCDC_8P_C (description="DCDC current value for +8V", quantity="A")
<i>Double1d</i>	DCDC_5P_C (description="DCDC current value for +5V", quantity="A")
<i>Double1d</i>	DCDC_3P3_C (description="DCDC current value for +3.3V", quantity="A")
<i>Double1d</i>	DCDC_1P1_C (description="DCDC current value for +1.1V", quantity="A")
<i>Double1d</i>	DCDC_5M_C (description="DCDC current value for -5V", quantity="A")
<i>Double2d</i>	DCDC_T (description="DCDC Temperature values", quantity="degC")
<i>Double1d</i>	ACS_18P_V (description="ACS voltage for +18V", quantity="V")
<i>Double1d</i>	ACS_8P_V (description="ACS voltage for +8V", quantity="V")
<i>Double1d</i>	ACS_5P_V (description="ACS voltage for +5V", quantity="V")
<i>Double1d</i>	ACS_Dig_3P3_V (description="ACS voltage for +3.3V (digital)", quantity="V")
<i>Double1d</i>	ACS_Ana_1P1_V (description="ACS voltage for +1.1V (analog)", quantity="V")
<i>Double1d</i>	ACS_5M_V (description="ACS voltage for -5V", quantity="V")
<i>Double1d</i>	ACS_Ana_1_3P3_V (description="ACS voltage for +3.3V (analog1)", quantity="V")
<i>Double1d</i>	ACS_Ana_2_3P3_V (description="ACS voltage for +3.3V (analog2)", quantity="V")
<i>Double2d</i>	ACS_T (description="ACS Temperature values", quantity="degC")
<i>Double1d</i>	IF_18P_V (description="IF voltage for +18V", quantity="V")
<i>Double1d</i>	IF_8P_V (description="IF voltage for +8V", quantity="V")
<i>Double1d</i>	IF_5P_V (description="IF voltage for +5V", quantity="V")
<i>Double1d</i>	IF_5M_V (description="IF voltage for -5V", quantity="V")
<i>Double1d</i>	IF_6P_V (description="IF voltage for +6V", quantity="V")
<i>Double2d</i>	IF_T (description="IF Temperature values", quantity="degC")

<i>Double2d</i>	hot_cold (description="Hot and cold temperatures of the Blackbody Calibrator", quantity="K")
<i>Double1d</i>	MJC_Hor (description="Calibrated mixer junction current, horizontal band 1", quantity="mA")
<i>Double1d</i>	MJC_Ver (description="Calibrated mixer junction current, vertical band 1", quantity="mA")
<i>Double1d</i>	LoFrequency (description="Local Oscillator Frequency", quantity="GHz")
<i>Double1d</i>	longitude (description="longitude (RA in equatorial coord)", quantity="deg")
<i>Double1d</i>	latitude (description="latitude (Decl in equatorial coord)", quantity="deg")
<i>Double1d</i>	posAngle (description="Position Angle", quantity="deg")
<i>Double1d</i>	longitudeError (description="longitude errors", quantity="arcsec")
<i>Double1d</i>	latitudeError (description="latitude errors", quantity="arcsec")
<i>Double1d</i>	posAngleError (description="Position Angle errors", quantity="arcsec")
<i>Double1d</i>	longitude_cmd (description="longitude (RA in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	latitude_cmd (description="latitude (Decl in equatorial coord) average H and V", quantity="deg")
<i>Int1d</i>	rasterLineNum (description="Raster line number", quantity="1")
<i>Int1d</i>	rasterColumnNum (description="Raster Column number", quantity="1")
<i>Int1d</i>	scanLineNum (description="Scan line number", quantity="1")
<i>Int1d</i>	nodCycleNum (description="Switching/nodding cycle number", quantity="1")
<i>Int1d</i>	customMapPointNum (description="Custom map pointing number", quantity="1")
<i>Double2d</i>	flux_1 (description="HRS Correlation factors (in counts)", quantity="none")
<i>Double2d</i>	flux_2 (description="HRS Correlation factors (in counts)", quantity="none")
<i>Double2d</i>	flux_3 (description="HRS Correlation factors (in counts)", quantity="none")
<i>Double2d</i>	flux_4 (description="HRS Correlation factors (in counts)", quantity="none")
<i>Double2d</i>	flux_5 (description="HRS Correlation factors (in counts)", quantity="none")
<i>Double2d</i>	flux_6 (description="HRS Correlation factors (in counts)", quantity="none")
<i>Double2d</i>	flux_7 (description="HRS Correlation factors (in counts)", quantity="none")
<i>Double2d</i>	flux_8 (description="HRS Correlation factors (in counts)", quantity="none")
<i>Double2d</i>	flux_9 (description="HRS Correlation factors (in counts)", quantity="none")

<i>Double2d</i>	flux_10 (description="HRS Correlation factors (in counts)", quantity="none")
<i>Double2d</i>	flux_11 (description="HRS Correlation factors (in counts)", quantity="none")
<i>Double2d</i>	flux_12 (description="HRS Correlation factors (in counts)", quantity="none")
<i>Double2d</i>	flux_13 (description="HRS Correlation factors (in counts)", quantity="none")
<i>Double2d</i>	flux_14 (description="HRS Correlation factors (in counts)", quantity="none")
<i>Double2d</i>	flux_15 (description="HRS Correlation factors (in counts)", quantity="none")
<i>Double2d</i>	flux_16 (description="HRS Correlation factors (in counts)", quantity="none")
<i>Int2d</i>	type (description="null", quantity="none")
<i>Int2d</i>	sampler (description="null", quantity="none")
<i>Int2d</i>	channels (description="null", quantity="none")
<i>Int2d</i>	resolution (description="null", quantity="none")
<i>Int2d</i>	colorIndex (description="null", quantity="none")
<i>Double2d</i>	mSigma (description="null", quantity="none")
<i>Double2d</i>	integrationTime (description="Integration duration in seconds", quantity="s")
<i>Double2d</i>	corrVSigma (description="null", quantity="none")
<i>Double2d</i>	frequency_1 (description="Intermediate Frequency", quantity="MHz")
<i>Double2d</i>	frequency_2 (description="Intermediate Frequency", quantity="MHz")
<i>Double2d</i>	frequency_3 (description="Intermediate Frequency", quantity="MHz")
<i>Double2d</i>	frequency_4 (description="Intermediate Frequency", quantity="MHz")
<i>Double2d</i>	frequency_5 (description="Intermediate Frequency", quantity="MHz")
<i>Double2d</i>	frequency_6 (description="Intermediate Frequency", quantity="MHz")
<i>Double2d</i>	frequency_7 (description="Intermediate Frequency", quantity="MHz")
<i>Double2d</i>	frequency_8 (description="Intermediate Frequency", quantity="MHz")
<i>Double2d</i>	frequency_9 (description="Intermediate Frequency", quantity="MHz")
<i>Double2d</i>	frequency_10 (description="Intermediate Frequency", quantity="MHz")
<i>Double2d</i>	frequency_11 (description="Intermediate Frequency", quantity="MHz")
<i>Double2d</i>	frequency_12 (description="Intermediate Frequency", quantity="MHz")

<i>Double2d</i>	frequency_13 (description="Intermediate Frequency", quantity="MHz")
<i>Double2d</i>	frequency_14 (description="Intermediate Frequency", quantity="MHz")
<i>Double2d</i>	frequency_15 (description="Intermediate Frequency", quantity="MHz")
<i>Double2d</i>	frequency_16 (description="Intermediate Frequency", quantity="MHz")
<i>Int2d</i>	cuts (description="null", quantity="none")
<i>Int2d</i>	flag_1 (description="flag", quantity="none")
<i>Int2d</i>	flag_2 (description="flag", quantity="none")
<i>Int2d</i>	flag_3 (description="flag", quantity="none")
<i>Int2d</i>	flag_4 (description="flag", quantity="none")
<i>Int2d</i>	flag_5 (description="flag", quantity="none")
<i>Int2d</i>	flag_6 (description="flag", quantity="none")
<i>Int2d</i>	flag_7 (description="flag", quantity="none")
<i>Int2d</i>	flag_8 (description="flag", quantity="none")
<i>Int2d</i>	flag_9 (description="flag", quantity="none")
<i>Int2d</i>	flag_10 (description="flag", quantity="none")
<i>Int2d</i>	flag_11 (description="flag", quantity="none")
<i>Int2d</i>	flag_12 (description="flag", quantity="none")
<i>Int2d</i>	flag_13 (description="flag", quantity="none")
<i>Int2d</i>	flag_14 (description="flag", quantity="none")
<i>Int2d</i>	flag_15 (description="flag", quantity="none")
<i>Int2d</i>	flag_16 (description="flag", quantity="none")

1.1.11. HIFI Product Level 1 - HIFI Calibration Product

<i>product (type="GenericPipelineCalibrationOutput", description="HIFI Calibration Product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	version (description="Version of this product")
StringParameter	name (description="Name of this product")
LongParameter	obsid (description="Observation Identifier")
LongParameter	apid (description="Application Programme Identifier")

StringParameter	Band (description="Active band")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	obsMode (description="Observation Mode")
LongParameter	odNumber (description="Operational day number")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
StringParameter	calVersion (description="HIFI calibration version")
<i>Columns</i>	
<i>table dataset</i>	(name="summary", description="null")
<i>Metadata</i>	
<i>Columns</i>	
<i>IntId</i>	dataset (description="null", quantity="none")
<i>BoolId</i>	unalignedHK (description="null", quantity="none")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

1.1.12. HIFI Product Level 1 - Phase Information for Buffer, Chopper and LOFrequency

<i>product (type="GenericPipelineCalibrationOutput", description="Phase Information for Buffer, Chopper and LOFrequency")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	version (description="Version of this product")
StringParameter	name (description="Name of this product")
LongParameter	obsid (description="Observation Identifier")
LongParameter	apid (description="Application Programme Identifier")
StringParameter	Band (description="Active band")

StringParameter	AOT (description="Observation template (same as obsMode)")	
StringParameter	obsMode (description="Observation Mode")	
LongParameter	odNumber (description="Operational day number")	
StringParameter	proposal (description="Proposal name")	
StringParameter	observer (description="Observer name")	
StringParameter	object (description="Target of Observation")	
StringParameter	author (description="author of this product")	
StringParameter	origin (description="site that created the product")	
StringParameter	telescope (description="name of telescope")	
StringParameter	calVersion (description="HIFI calibration version")	
Columns		
table dataset	(name="summary", description="null")	
Metadata		
Columns		
	Int1d	dataset (description="Dataset key", quantity="none")
	String1d	type (description="List of types for each block", quantity="none")
	Int1d	length (description="Length of each block", quantity="none")
	Int1d	bbid (description="Unique bbtype of each block", quantity="none")
	Bool1d	isLine (description="ON/OFF", quantity="none")
	String1d	chopperPattern (description="Pattern of chopper positions", quantity="none")
	String1d	chopper (description="Different chopper positions", quantity="none")
	String1d	initialChopper (description="Initial chopper position", quantity="none")
	String1d	loPattern (description="Pattern of LO frequencies", quantity="none")
	Double2d	loFrequencies (description="Different LO frequencies", quantity="none")
	Double1d	initialLoF (description="Initial LO frequency", quantity="none")
	String1d	bufferPattern (description="Pattern of buffer values", quantity="none")
	String1d	buffers (description="Different buffer values", quantity="none")
	Int1d	initialBuffer (description="Initial buffer", quantity="none")
	Int1d	loFGroup (description="LO Frequency Group", quantity="none")
	Int1d	bandpassLoFGroup (description="LO Frequency Group of the bandpass used", quantity="none")
	Int1d	offLoFGroup (description="LO Frequency Group of the OFF data used", quantity="none")
	String1d	pointingPattern (description="Pattern followed by the pointing", quantity="none")
	String1d	points (description="differentPoints", quantity="none")
	String1d	initialPoint (description="initialPoint", quantity="none")
	Int1d	pointingGroup (description="pointingGroup", quantity="none")
	()	
composite dataset	Dataset similar to the one above with (name="History", description="History of product")	

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1.1.13. HIFI Product Level 1 - WBS Spectrum Dataset of type: tune

<i>product (type="herschel.ia.dataset.Product(HifiSpectrumDataset)", description="WBS Spectrum Dataset of type: tune")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of Channels")
StringParameter	rowflag_9 (description="No valid Chopper information. value = 512")
StringParameter	rowflag_10 (description="No valid Commanded Chopper information. value = 1024")
StringParameter	rowflag_11 (description="No valid Frequency Monitor information. value = 2048")
StringParameter	rowflag_12 (description="No valid LO code offset information. value = 4096")
StringParameter	rowflag_13 (description="No valid LO code main information. value = 8192")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")

StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
LongParameter	Pipeline applied (description="Define which pipeline modules have been applied to the data.\u000A bit 0 = not used \u000A bit 1 = Scan count correction \u000A bit 3 = Dark correction \u000A bit 4 = Non Linearity correction \u000A")

	bit 5 = Zero correction \u000A bit 6 = Frequency calibration applied \u000A", quantity="degrees")
BooleanParameter	isMasked (description="Bad Pixels have been flagged", quantity="degrees")
DoubleParameter	resolution (description="Mean resolution from all combs spectra", quantity="MHz")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="MHz")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="MHz")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="MHz")
LongParameter	subbandstart_3 (description="Starting channel for subband 3", quantity="MHz")
LongParameter	subbandstart_4 (description="Starting channel for subband 4", quantity="MHz")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="MHz")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="MHz")
LongParameter	subbandlength_3 (description="Length of subband 3", quantity="MHz")
LongParameter	subbandlength_4 (description="Length of subband 4", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="MHz")
DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="MHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
StringParameter	fileName (description="filename for exporting purposes", quantity="m2")
<i>Columns</i>	
<i>table dataset</i>	(name="0001", description="WBS Spectrum Dataset of type: tune")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of Channels")

StringParameter	rowflag_9 (description="No valid Chopper information. value = 512")
StringParameter	rowflag_10 (description="No valid Commanded Chopper information. value = 1024")
StringParameter	rowflag_11 (description="No valid Frequency Monitor information. value = 2048")
StringParameter	rowflag_12 (description="No valid LO code offset information. value = 4096")
StringParameter	rowflag_13 (description="No valid LO code main information. value = 8192")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")

StringParameter	level (description="Pipeline level", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
LongParameter	Pipeline applied (description="Define which pipeline modules have been applied to the data.\u000A bit 0 = not used \u000A bit 1 = Scan count correction \u000A bit 3 = Dark correction \u000A bit 4 = Non Linearity correction \u000A bit 5 = Zero correction \u000A bit 6 = Frequency calibration applied \u000A", quantity="degrees")
BooleanParameter	isMasked (description="Bad Pixels have been flagged", quantity="degrees")
DoubleParameter	resolution (description="Mean resolution from all combs spectra", quantity="MHz")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="MHz")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="MHz")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="MHz")
LongParameter	subbandstart_3 (description="Starting channel for subband 3", quantity="MHz")
LongParameter	subbandstart_4 (description="Starting channel for subband 4", quantity="MHz")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="MHz")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="MHz")

LongParameter	subbandlength_3 (description="Length of subband 3", quantity="MHz")
LongParameter	subbandlength_4 (description="Length of subband 4", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="MHz")
DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="MHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
<i>Columns</i>	
<i>Int1d</i>	bbtype (description="Building Block Type", quantity="none")
<i>Int1d</i>	bbnumber (description="Building Block Number", quantity="none")
<i>Int1d</i>	sequenceNumber (description="Integration Sequence Number", quantity="none")
<i>Int1d</i>	integrations (description="Number of Integrations", quantity="none")
<i>Int1d</i>	buffer (description="Integration Buffer", quantity="none")
<i>Int1d</i>	nrbytes (description="Number of Bytes", quantity="none")
<i>Int1d</i>	bitshift (description="Bit Shift", quantity="none")
<i>Long1d</i>	packetTime (description="Packetization Time", quantity="none")
<i>Long1d</i>	obsTime (description="Observation Time", quantity="none")
<i>Int1d</i>	rowflag (description="Dataframe Flag", quantity="none")
<i>Int1d</i>	df_transfer (description="DataFrame Transfer Counter", quantity="none")
<i>Double1d</i>	Chopper (description="Actual chopper positions", quantity="none")
<i>Double1d</i>	cmd_chopper (description="Commanded chopper positions", quantity="none")
<i>Bool1d</i>	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
<i>Double1d</i>	frequency_monitor (description="LSU Frequency Monitor", quantity="none")
<i>Int2d</i>	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")
<i>Int1d</i>	scancount (description="Integrated Scan Count", quantity="none")
<i>Double3d</i>	dark (description="Dark Current Data", quantity="none")
<i>Int1d</i>	hk_transfer (description="hk_transfer", quantity="none")
<i>Int2d</i>	Band_ATT (description="null", quantity="none")
<i>Int1d</i>	IN_ATT (description="null", quantity="none")
<i>Double2d</i>	hot_cold (description="Hot and cold temperatures of the Blackbody Calibrator", quantity="K")

<i>Double1d</i>	MJC_Hor (description="Calibrated mixer junction current, horizontal band 1", quantity="mA")
<i>Double1d</i>	MJC_Ver (description="Calibrated mixer junction current, vertical band 1", quantity="mA")
<i>Double1d</i>	LoFrequency (description="Local Oscillator Frequency", quantity="GHz")
<i>Double1d</i>	longitude (description="longitude (RA in equatorial coord)", quantity="deg")
<i>Double1d</i>	latitude (description="latitude (Decl in equatorial coord)", quantity="deg")
<i>Double1d</i>	posAngle (description="Position Angle", quantity="deg")
<i>Double1d</i>	longitudeError (description="longitude errors", quantity="arcsec")
<i>Double1d</i>	latitudeError (description="latitude errors", quantity="arcsec")
<i>Double1d</i>	posAngleError (description="Position Angle errors", quantity="arcsec")
<i>Double1d</i>	longitude_cmd (description="longitude (RA in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	latitude_cmd (description="latitude (Decl in equatorial coord) average H and V", quantity="deg")
<i>Int1d</i>	rasterLineNum (description="Raster line number", quantity="1")
<i>Int1d</i>	rasterColumnNum (description="Raster Column number", quantity="1")
<i>Int1d</i>	scanLineNum (description="Scan line number", quantity="1")
<i>Int1d</i>	nodCycleNum (description="Switching/nodding cycle number", quantity="1")
<i>Int1d</i>	customMapPointNum (description="Custom map pointing number", quantity="1")
<i>Int2d</i>	badLo (description="bit 0=Bad LO; bit 1=Weak_spur; bit 2=Strong_spur; bit 3=Strong_instability; bit 4=IF_saturation;", quantity="none")
<i>Double1d</i>	integrationTime (description="Integration duration in seconds", quantity="s")
<i>Double2d</i>	flux_1 (description="WBS flux (in counts)", quantity="none")
<i>Double2d</i>	flux_2 (description="WBS flux (in counts)", quantity="none")
<i>Double2d</i>	flux_3 (description="WBS flux (in counts)", quantity="none")
<i>Double2d</i>	flux_4 (description="WBS flux (in counts)", quantity="none")
<i>Int2d</i>	flag_1 (description="flag", quantity="none")
<i>Int2d</i>	flag_2 (description="flag", quantity="none")
<i>Int2d</i>	flag_3 (description="flag", quantity="none")
<i>Int2d</i>	flag_4 (description="flag", quantity="none")
<i>Double2d</i>	frequency_1 (description="Intermediate Frequency", quantity="MHz")
<i>Double2d</i>	frequency_2 (description="Intermediate Frequency", quantity="MHz")
<i>Double2d</i>	frequency_3 (description="Intermediate Frequency", quantity="MHz")

				<i>Double2d</i> frequency_4 (description="Intermediate Frequency", quantity="MHz")

1.1.14. HIFI Product Level 0 - HRS Spectrum Dataset of type: tune

<i>product (type="herschel.ia.dataset.Product(HifiSpectrumDataset)", description="HRS Spectrum Dataset of type: tune")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of Channels")
LongParameter	subbandstart_1 (description="Starting channel for subband 1")
LongParameter	subbandstart_2 (description="Starting channel for subband 2")
LongParameter	subbandstart_3 (description="Starting channel for subband 3")
LongParameter	subbandstart_4 (description="Starting channel for subband 4")
LongParameter	subbandstart_5 (description="Starting channel for subband 5")
LongParameter	subbandstart_6 (description="Starting channel for subband 6")
LongParameter	subbandstart_7 (description="Starting channel for subband 7")
LongParameter	subbandstart_8 (description="Starting channel for subband 8")
StringParameter	rowflag_9 (description="No valid Chopper information. value = 512")
StringParameter	rowflag_10 (description="No valid Commanded Chopper information. value = 1024")
StringParameter	rowflag_11 (description="No valid Frequency Monitor information. value = 2048")
StringParameter	rowflag_12 (description="No valid LO code offset information. value = 4096")
StringParameter	rowflag_13 (description="No valid LO code main information. value = 8192")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
LongParameter	subbandlength_1 (description="Length of subband 1")
LongParameter	subbandlength_2 (description="Length of subband 2")
LongParameter	subbandlength_3 (description="Length of subband 3")

LongParameter	subbandlength_4 (description="Length of subband 4")
LongParameter	subbandlength_5 (description="Length of subband 5")
LongParameter	subbandlength_6 (description="Length of subband 6")
LongParameter	subbandlength_7 (description="Length of subband 7")
LongParameter	subbandlength_8 (description="Length of subband 8")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")

StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
StringParameter	fileName (description="filename for exporting purposes", quantity="degrees")
<i>Columns</i>	
<i>table dataset</i>	(name="0001", description="HRS Spectrum Dataset of type: tune")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of Channels")
LongParameter	subbandstart_1 (description="Starting channel for subband 1")
LongParameter	subbandstart_2 (description="Starting channel for subband 2")
LongParameter	subbandstart_3 (description="Starting channel for subband 3")
LongParameter	subbandstart_4 (description="Starting channel for subband 4")
LongParameter	subbandstart_5 (description="Starting channel for subband 5")
LongParameter	subbandstart_6 (description="Starting channel for subband 6")
LongParameter	subbandstart_7 (description="Starting channel for subband 7")
LongParameter	subbandstart_8 (description="Starting channel for subband 8")
StringParameter	rowflag_9 (description="No valid Chopper information. value = 512")
StringParameter	rowflag_10 (description="No valid Commanded Chopper information. value = 1024")
StringParameter	rowflag_11 (description="No valid Frequency Monitor information. value = 2048")
StringParameter	rowflag_12 (description="No valid LO code offset information. value = 4096")

StringParameter	rowflag_13 (description="No valid LO code main information. value = 8192")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
LongParameter	subbandlength_1 (description="Length of subband 1")
LongParameter	subbandlength_2 (description="Length of subband 2")
LongParameter	subbandlength_3 (description="Length of subband 3")
LongParameter	subbandlength_4 (description="Length of subband 4")
LongParameter	subbandlength_5 (description="Length of subband 5")
LongParameter	subbandlength_6 (description="Length of subband 6")
LongParameter	subbandlength_7 (description="Length of subband 7")
LongParameter	subbandlength_8 (description="Length of subband 8")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")

StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
<i>Columns</i>	
<i>Double2d</i>	CF (description="HRS Correlation factors (in counts)", quantity="1")
<i>Int1d</i>	bbtype (description="Building Block Type", quantity="none")
<i>Int1d</i>	bbnumber (description="Building Block Number", quantity="none")
<i>Int1d</i>	sequenceNumber (description="Integration Sequence Number", quantity="none")
<i>Int1d</i>	integrations (description="Number of Integrations", quantity="none")
<i>Int1d</i>	buffer (description="Integration Buffer", quantity="none")
<i>Int1d</i>	nrbytes (description="Number of Bytes", quantity="none")
<i>Int1d</i>	bitshift (description="Bit Shift", quantity="none")
<i>Long1d</i>	packetTime (description="Packetization Time", quantity="none")
<i>Long1d</i>	obsTime (description="Observation Time", quantity="none")
<i>Int1d</i>	rowflag (description="Dataframe Flag", quantity="none")
<i>Int1d</i>	df_transfer (description="DataFrame Transfer Counter", quantity="none")
<i>Double1d</i>	Chopper (description="Actual chopper positions", quantity="none")
<i>Double1d</i>	cmd_chopper (description="Commanded chopper positions", quantity="none")
<i>Bool1d</i>	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
<i>Double1d</i>	frequency_monitor (description="LSU Frequency Monitor", quantity="none")
<i>Int2d</i>	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")
<i>Bool2d</i>	blockselection (description="Block Selection", quantity="none")

<i>Int2d</i>	configuration (description="Configuration", quantity="none")
<i>Int2d</i>	duration (description="Integration Duration", quantity="none")
<i>Int2d</i>	offset (description="Offset", quantity="none")
<i>Int1d</i>	hk_transfer (description="hk_transfer", quantity="none")
<i>Int2d</i>	LO_S (description="Status of the LO : Locked (=1) / Unlocked (=0)", quantity="none")
<i>String1d</i>	Switch_S (description="Status of the input IF Switch : H/V", quantity="none")
<i>String1d</i>	Buffer_S (description="Buffer for ACS integration : BufferA/BufferB", quantity="none")
<i>String1d</i>	Unit_ID_S (description="Unit used : QM/FM", quantity="none")
<i>String1d</i>	Pol_S (description="Polar used : H/V", quantity="none")
<i>Double2d</i>	Attenuators (description="IRM attenuator values : 0-15.5 dB", quantity="dB")
<i>Double2d</i>	LO_F (description="LO Frequency values", quantity="MHz")
<i>Int2d</i>	LO_F_raw (description="LO Frequency raw values", quantity="MHz")
<i>Double1d</i>	DCDC_18P_C (description="DCDC current value for +18V", quantity="A")
<i>Double1d</i>	DCDC_8P_C (description="DCDC current value for +8V", quantity="A")
<i>Double1d</i>	DCDC_5P_C (description="DCDC current value for +5V", quantity="A")
<i>Double1d</i>	DCDC_3P3_C (description="DCDC current value for +3.3V", quantity="A")
<i>Double1d</i>	DCDC_1P1_C (description="DCDC current value for +1.1V", quantity="A")
<i>Double1d</i>	DCDC_5M_C (description="DCDC current value for -5V", quantity="A")
<i>Double2d</i>	DCDC_T (description="DCDC Temperature values", quantity="degC")
<i>Double1d</i>	ACS_18P_V (description="ACS voltage for +18V", quantity="V")
<i>Double1d</i>	ACS_8P_V (description="ACS voltage for +8V", quantity="V")
<i>Double1d</i>	ACS_5P_V (description="ACS voltage for +5V", quantity="V")
<i>Double1d</i>	ACS_Dig_3P3_V (description="ACS voltage for +3.3V (digital)", quantity="V")
<i>Double1d</i>	ACS_Ana_1P1_V (description="ACS voltage for +1.1V (analog)", quantity="V")
<i>Double1d</i>	ACS_5M_V (description="ACS voltage for -5V", quantity="V")
<i>Double1d</i>	ACS_Ana_1_3P3_V (description="ACS voltage for +3.3V (analog1)", quantity="V")
<i>Double1d</i>	ACS_Ana_2_3P3_V (description="ACS voltage for +3.3V (analog2)", quantity="V")
<i>Double2d</i>	ACS_T (description="ACS Temperature values", quantity="degC")
<i>Double1d</i>	IF_18P_V (description="IF voltage for +18V", quantity="V")
<i>Double1d</i>	IF_8P_V (description="IF voltage for +8V", quantity="V")

<i>Double1d</i>	IF_5P_V (description="IF voltage for +5V", quantity="V")
<i>Double1d</i>	IF_5M_V (description="IF voltage for -5V", quantity="V")
<i>Double1d</i>	IF_6P_V (description="IF voltage for +6V", quantity="V")
<i>Double2d</i>	IF_T (description="IF Temperature values", quantity="degC")
<i>Double2d</i>	hot_cold (description="Hot and cold temperatures of the Blackbody Calibrator", quantity="K")
<i>Double1d</i>	MJC_Hor (description="Calibrated mixer junction current, horizontal band 4", quantity="mA")
<i>Double1d</i>	MJC_Ver (description="Calibrated mixer junction current, vertical band 4", quantity="mA")
<i>Double1d</i>	LoFrequency (description="Local Oscillator Frequency", quantity="GHz")
<i>Double1d</i>	longitude (description="longitude (RA in equatorial coord)", quantity="deg")
<i>Double1d</i>	latitude (description="latitude (Decl in equatorial coord)", quantity="deg")
<i>Double1d</i>	posAngle (description="Position Angle", quantity="deg")
<i>Double1d</i>	longitudeError (description="longitude errors", quantity="arcsec")
<i>Double1d</i>	latitudeError (description="latitude errors", quantity="arcsec")
<i>Double1d</i>	posAngleError (description="Position Angle errors", quantity="arcsec")
<i>Double1d</i>	longitude_cmd (description="longitude (RA in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	latitude_cmd (description="latitude (Decl in equatorial coord) average H and V", quantity="deg")
<i>Int1d</i>	rasterLineNum (description="Raster line number", quantity="1")
<i>Int1d</i>	rasterColumnNum (description="Raster Column number", quantity="1")
<i>Int1d</i>	scanLineNum (description="Scan line number", quantity="1")
<i>Int1d</i>	nodCycleNum (description="Switching/nodding cycle number", quantity="1")
<i>Int1d</i>	customMapPointNum (description="Custom map pointing number", quantity="1")

1.1.15. HIFI Product Level 0 - Level 0 Quality Product

<i>product (type="QHtpLevel0", description="Level 0 Quality Product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")

DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	version (description="Version of this product")
LongParameter	obsid (description="Observation Identifier")
LongParameter	apid (description="Application Programme Identifier")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted")
<i>Columns</i>	
<i>table dataset</i>	(name="DFQuality", description="Level 0 Quality Product")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	obsid (description="Observation Identifier")
LongParameter	version (description="Version of this product")
LongParameter	apid (description="Application Programme Identifier")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted")
<i>Columns</i>	
<i>Int1d</i>	dataset (description="dataset id, corresponding the the dataset in the HTP", quantity="none")
<i>String1d</i>	type (description="category of the Bbid", quantity="none")
<i>Int1d</i>	Bbid (description="Building Block", quantity="none")
<i>Int1d</i>	start (description="Start index for each block", quantity="none")
<i>Int1d</i>	length (description="Length of each block", quantity="none")
<i>Int1d</i>	unalignedHKdata (description="UNALIGNED_HK", quantity="none")
<i>Int1d</i>	noChopperHKdata (description="NOCHOPPER", quantity="none")
<i>Int1d</i>	noCommandedChopperHKdata (description="NOCOMCHOP", quantity="none")
<i>Int1d</i>	noFrequencyMonitorHKdata (description="NOFREQMON", quantity="none")
<i>Int1d</i>	noLoCodeOffsetHKdata (description="NOLCOFFS", quantity="none")
<i>Int1d</i>	noLoCodeMainHKdata (description="NOLCMAIN", quantity="none")
<i>Int1d</i>	bbidCorrection (description="BBID_CORRECTION", quantity="none")

				<i>IntId</i> zeroesInCF (description="ZEROES_IN_CF", quantity="none")

1.1.16. HIFI Product Level 0 - WBS Spectrum Dataset of type: tune

<i>product (type="herchel.ia.dataset.Product(HifiSpectrumDataset)", description="WBS Spectrum Dataset of type: tune")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of Channels")
LongParameter	subbandstart_1 (description="Starting channel for subband 1")
LongParameter	subbandstart_2 (description="Starting channel for subband 2")
LongParameter	subbandstart_3 (description="Starting channel for subband 3")
LongParameter	subbandstart_4 (description="Starting channel for subband 4")
LongParameter	subbandlength_1 (description="Length of subband 1")
LongParameter	subbandlength_2 (description="Length of subband 2")
LongParameter	subbandlength_3 (description="Length of subband 3")
LongParameter	subbandlength_4 (description="Length of subband 4")
StringParameter	rowflag_9 (description="No valid Chopper information. value = 512")
StringParameter	rowflag_10 (description="No valid Commanded Chopper information. value = 1024")
StringParameter	rowflag_11 (description="No valid Frequency Monitor information. value = 2048")
StringParameter	rowflag_12 (description="No valid LO code offset information. value = 4096")
StringParameter	rowflag_13 (description="No valid LO code main information. value = 8192")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")

StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")

LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
StringParameter	badLoBand_2 (description="bad Lo in band", quantity="degrees")
StringParameter	fileName (description="filename for exporting purposes", quantity="degrees")
Columns	
table dataset	(name="0001", description="WBS Spectrum Dataset of type: tune")
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of Channels")
LongParameter	subbandstart_1 (description="Starting channel for subband 1")
LongParameter	subbandstart_2 (description="Starting channel for subband 2")
LongParameter	subbandstart_3 (description="Starting channel for subband 3")
LongParameter	subbandstart_4 (description="Starting channel for subband 4")
LongParameter	subbandlength_1 (description="Length of subband 1")
LongParameter	subbandlength_2 (description="Length of subband 2")
LongParameter	subbandlength_3 (description="Length of subband 3")
LongParameter	subbandlength_4 (description="Length of subband 4")
StringParameter	rowflag_9 (description="No valid Chopper information. value = 512")
StringParameter	rowflag_10 (description="No valid Commanded Chopper information. value = 1024")
StringParameter	rowflag_11 (description="No valid Frequency Monitor information. value = 2048")
StringParameter	rowflag_12 (description="No valid LO code offset information. value = 4096")
StringParameter	rowflag_13 (description="No valid LO code main information. value = 8192")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
QuantifiableParameter	waveunit (description="Units of the WaveColumn")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")

StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")

LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
StringParameter	badLoBand_2 (description="bad Lo in band", quantity="degrees")
<i>Columns</i>	
<i>Double2d</i>	flux (description="WBS flux (in counts)", quantity="none")
<i>Int1d</i>	bbtype (description="Building Block Type", quantity="none")
<i>Int1d</i>	bbnumber (description="Building Block Number", quantity="none")
<i>Int1d</i>	sequenceNumber (description="Integration Sequence Number", quantity="none")
<i>Int1d</i>	integrations (description="Number of Integrations", quantity="none")
<i>Int1d</i>	buffer (description="Integration Buffer", quantity="none")
<i>Int1d</i>	nrbytes (description="Number of Bytes", quantity="none")
<i>Int1d</i>	bitshift (description="Bit Shift", quantity="none")
<i>Long1d</i>	packetTime (description="Packetization Time", quantity="none")
<i>Long1d</i>	obsTime (description="Observation Time", quantity="none")
<i>Int1d</i>	rowflag (description="Dataframe Flag", quantity="none")
<i>Int1d</i>	df_transfer (description="DataFrame Transfer Counter", quantity="none")
<i>Double1d</i>	Chopper (description="Actual chopper positions", quantity="none")
<i>Double1d</i>	cmd_chopper (description="Commanded chopper positions", quantity="none")
<i>Bool1d</i>	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
<i>Double1d</i>	frequency_monitor (description="LSU Frequency Monitor", quantity="none")
<i>Int2d</i>	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")
<i>Int1d</i>	scancount (description="Integrated Scan Count", quantity="none")
<i>Double3d</i>	dark (description="Dark Current Data", quantity="none")
<i>Double2d</i>	channels (description="Channel", quantity="pixel")
<i>Int1d</i>	hk_transfer (description="hk_transfer", quantity="none")
<i>Int2d</i>	Band_ATT (description="null", quantity="none")
<i>Int1d</i>	IN_ATT (description="null", quantity="none")
<i>Double2d</i>	hot_cold (description="Hot and cold temperatures of the Blackbody Calibrator", quantity="K")
<i>Double1d</i>	MJC_Hor (description="Calibrated mixer junction current, horizontal band 4", quantity="mA")
<i>Double1d</i>	MJC_Ver (description="Calibrated mixer junction current, vertical band 4", quantity="mA")
<i>Double1d</i>	LoFrequency (description="Local Oscillator Frequency", quantity="GHz")
<i>Double1d</i>	longitude (description="longitude (RA in equatorial coord)", quantity="deg")

<i>Double1d</i>	latitude (description="latitude (Decl in equatorial coord)", quantity="deg")
<i>Double1d</i>	posAngle (description="Position Angle", quantity="deg")
<i>Double1d</i>	longitudeError (description="longitude errors", quantity="arcsec")
<i>Double1d</i>	latitudeError (description="latitude errors", quantity="arcsec")
<i>Double1d</i>	posAngleError (description="Position Angle errors", quantity="arcsec")
<i>Double1d</i>	longitude_cmd (description="longitude (RA in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	latitude_cmd (description="latitude (Decl in equatorial coord) average H and V", quantity="deg")
<i>Int1d</i>	rasterLineNum (description="Raster line number", quantity="1")
<i>Int1d</i>	rasterColumnNum (description="Raster Column number", quantity="1")
<i>Int1d</i>	scanLineNum (description="Scan line number", quantity="1")
<i>Int1d</i>	nodCycleNum (description="Switching/nodding cycle number", quantity="1")
<i>Int1d</i>	customMapPointNum (description="Custom map pointing number", quantity="1")
<i>Int2d</i>	badLo (description="bit 0=Bad LO; bit 1=Weak_spur; bit 2=Strong_spur; bit 3=Strong_instability; bit 4=IF_saturation;", quantity="none")

1.1.17. HIFI Product Level 0 - WBS Spectrum Dataset of type: science

<i>product (type="herchel.ia.dataset.Product(HifiSpectrumDataset)", description="WBS Spectrum Dataset of type: science")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of Channels")
LongParameter	subbandstart_1 (description="Starting channel for subband 1")
LongParameter	subbandstart_2 (description="Starting channel for subband 2")

LongParameter	subbandstart_3 (description="Starting channel for subband 3")
LongParameter	subbandstart_4 (description="Starting channel for subband 4")
LongParameter	subbandlength_1 (description="Length of subband 1")
LongParameter	subbandlength_2 (description="Length of subband 2")
LongParameter	subbandlength_3 (description="Length of subband 3")
LongParameter	subbandlength_4 (description="Length of subband 4")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")

DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AH1_DPACT_C (description="HK HF_AH1_DPACT_C is Out of limit for 26 (100%) spectra", quantity="degrees")
BooleanParameter	diplexerCurrent (description="FPU: The values of diplexerCurrent are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 26 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 26 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 26 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 26 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
StringParameter	badLoBand_1 (description="bad Lo in band", quantity="degrees")
StringParameter	fileName (description="filename for exporting purposes", quantity="degrees")
<i>Columns</i>	
<i>table dataset</i>	(name="0101", description="WBS Spectrum Dataset of type: science")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")

StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of Channels")
LongParameter	subbandstart_1 (description="Starting channel for subband 1")
LongParameter	subbandstart_2 (description="Starting channel for subband 2")
LongParameter	subbandstart_3 (description="Starting channel for subband 3")
LongParameter	subbandstart_4 (description="Starting channel for subband 4")
LongParameter	subbandlength_1 (description="Length of subband 1")
LongParameter	subbandlength_2 (description="Length of subband 2")
LongParameter	subbandlength_3 (description="Length of subband 3")
LongParameter	subbandlength_4 (description="Length of subband 4")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
QuantifiableParameter	wavunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")

StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AH1_DPACT_C (description="HK HF_AH1_DPACT_C is Out of limit for 26 (100%) spectra", quantity="degrees")
BooleanParameter	diplexerCurrent (description="FPU: The values of diplexerCurrent are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 26 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 26 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 26 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")

BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 26 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
StringParameter	badLoBand_1 (description="bad Lo in band", quantity="degrees")
<i>Columns</i>	
<i>Double2d</i>	flux (description="WBS flux (in counts)", quantity="none")
<i>Int1d</i>	bbtype (description="Building Block Type", quantity="none")
<i>Int1d</i>	bbnumber (description="Building Block Number", quantity="none")
<i>Int1d</i>	sequenceNumber (description="Integration Sequence Number", quantity="none")
<i>Int1d</i>	integrations (description="Number of Integrations", quantity="none")
<i>Int1d</i>	buffer (description="Integration Buffer", quantity="none")
<i>Int1d</i>	nrbytes (description="Number of Bytes", quantity="none")
<i>Int1d</i>	bitshift (description="Bit Shift", quantity="none")
<i>Long1d</i>	packetTime (description="Packetization Time", quantity="none")
<i>Long1d</i>	obsTime (description="Observation Time", quantity="none")
<i>Int1d</i>	rowflag (description="Dataframe Flag", quantity="none")
<i>Int1d</i>	df_transfer (description="DataFrame Transfer Counter", quantity="none")
<i>Double1d</i>	Chopper (description="Actual chopper positions", quantity="none")
<i>Double1d</i>	cmd_chopper (description="Commanded chopper positions", quantity="none")
<i>Bool1d</i>	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
<i>Double1d</i>	frequency_monitor (description="LSU Frequency Monitor", quantity="none")
<i>Int2d</i>	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")
<i>Int1d</i>	scancount (description="Integrated Scan Count", quantity="none")
<i>Double3d</i>	dark (description="Dark Current Data", quantity="none")
<i>Double2d</i>	channels (description="Channel", quantity="pixel")
<i>Int1d</i>	hk_transfer (description="hk_transfer", quantity="none")
<i>Int2d</i>	Band_ATT (description="null", quantity="none")
<i>Int1d</i>	IN_ATT (description="null", quantity="none")
<i>Double2d</i>	hot_cold (description="Hot and cold temperatures of the Blackbody Calibrator", quantity="K")
<i>Double1d</i>	MJC_Hor (description="Calibrated mixer junction current, horizontal band 4", quantity="mA")
<i>Double1d</i>	MJC_Ver (description="Calibrated mixer junction current, vertical band 4", quantity="mA")
<i>Double1d</i>	LoFrequency (description="Local Oscillator Frequency", quantity="GHz")
<i>Double1d</i>	longitude (description="longitude (RA in equatorial coord)", quantity="deg")

<i>Double1d</i>	latitude (description="latitude (Decl in equatorial coord)", quantity="deg")
<i>Double1d</i>	posAngle (description="Position Angle", quantity="deg")
<i>Double1d</i>	longitudeError (description="longitude errors", quantity="arcsec")
<i>Double1d</i>	latitudeError (description="latitude errors", quantity="arcsec")
<i>Double1d</i>	posAngleError (description="Position Angle errors", quantity="arcsec")
<i>Double1d</i>	longitude_cmd (description="longitude (RA in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	latitude_cmd (description="latitude (Decl in equatorial coord) average H and V", quantity="deg")
<i>Int1d</i>	rasterLineNum (description="Raster line number", quantity="1")
<i>Int1d</i>	rasterColumnNum (description="Raster Column number", quantity="1")
<i>Int1d</i>	scanLineNum (description="Scan line number", quantity="1")
<i>Int1d</i>	nodCycleNum (description="Switching/nodding cycle number", quantity="1")
<i>Int1d</i>	customMapPointNum (description="Custom map pointing number", quantity="1")
<i>Long1d</i>	hkFlag (description="{HF_AV2_G_SIF1_V=17, HF_AH1_MXBIAS_C=0, HF_AH1_MXMG_C=4, HF_AV2_G_SIF3_V=21, HF_AH1_DPACT_V=10, HF_AV2_G_SIF2_V=19, HF_AH2_G_SIF3_V=20, HF_AH2_G_SIF2_V=18, HF_AH2_G_SIF1_V=16, HF_AH2_G_FIF1_V=12, HF_AH2_G_FIF2_V=14, HF_AV1_MXMG_V=7, HF_AP_SCHS_CT=22, HF_AV1_MXBIAS_V=3, HF_AV1_DPACT_C=27, HL_R_M1_1A_C=28, HF_APR_CH_ROT=8, HF_APR_SCC_S_CT=24, HF_AV2_G_FIF1_V=13, HF_AV2_G_FIF2_V=15, HL_R_M1_7A_C=28, HF_AH1_MXMG_V=6, HF_AR_SCHS_CT=23, HF_APR_S2K_CT=25, HL_R_M1_7B_C=28, HF_AH1_MXBIAS_V=2, HF_AV1_MXBIAS_C=1, HF_AV1_MXMG_C=5, HF_DPR_CH_ROT2=9, HF_AH1_DPACT_C=26, HL_R_M2_3B_C=28, HF_AV1_DPACT_V=11}", quantity="none")
<i>Int2d</i>	flag (description="flag", quantity="none")
<i>Int2d</i>	badLo (description="bit 0=Bad LO; bit 1=Weak_spur; bit 2=Strong_spur; bit 3=Strong_instability; bit 4=IF_saturation;", quantity="none")

1.1.18. HIFI Product Level 0 - WBS Spectrum Dataset of type: comb

<i>product (type="herschel.ia.dataset.Product(HifiSpectrumDataset)", description="WBS Spectrum Dataset of type: comb")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")

DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of Channels")
LongParameter	subbandstart_1 (description="Starting channel for subband 1")
LongParameter	subbandstart_2 (description="Starting channel for subband 2")
LongParameter	subbandstart_3 (description="Starting channel for subband 3")
LongParameter	subbandstart_4 (description="Starting channel for subband 4")
LongParameter	subbandlength_1 (description="Length of subband 1")
LongParameter	subbandlength_2 (description="Length of subband 2")
LongParameter	subbandlength_3 (description="Length of subband 3")
LongParameter	subbandlength_4 (description="Length of subband 4")
StringParameter	rowflag_9 (description="No valid Chopper information. value = 512")
StringParameter	rowflag_10 (description="No valid Commanded Chopper information. value = 1024")
StringParameter	rowflag_11 (description="No valid Frequency Monitor information. value = 2048")
StringParameter	rowflag_12 (description="No valid LO code offset information. value = 4096")
StringParameter	rowflag_13 (description="No valid LO code main information. value = 8192")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")

StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
StringParameter	badLoBand_1 (description="bad Lo in band", quantity="degrees")
StringParameter	fileName (description="filename for exporting purposes", quantity="degrees")
<i>Columns</i>	
<i>table dataset</i>	(name="0201", description="WBS Spectrum Dataset of type: comb")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")

StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of Channels")
LongParameter	subbandstart_1 (description="Starting channel for subband 1")
LongParameter	subbandstart_2 (description="Starting channel for subband 2")
LongParameter	subbandstart_3 (description="Starting channel for subband 3")
LongParameter	subbandstart_4 (description="Starting channel for subband 4")
LongParameter	subbandlength_1 (description="Length of subband 1")
LongParameter	subbandlength_2 (description="Length of subband 2")
LongParameter	subbandlength_3 (description="Length of subband 3")
LongParameter	subbandlength_4 (description="Length of subband 4")
StringParameter	rowflag_9 (description="No valid Chopper information. value = 512")
StringParameter	rowflag_10 (description="No valid Commanded Chopper information. value = 1024")
StringParameter	rowflag_11 (description="No valid Frequency Monitor information. value = 2048")
StringParameter	rowflag_12 (description="No valid LO code offset information. value = 4096")
StringParameter	rowflag_13 (description="No valid LO code main information. value = 8192")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
QuantifiableParameter	waveunit (description="Units of the WaveColumn")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")

StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
StringParameter	badLoBand_1 (description="bad Lo in band", quantity="degrees")
<i>Columns</i>	
<i>Double2d</i>	flux (description="WBS flux (in counts)", quantity="none")
<i>Int1d</i>	bbtype (description="Building Block Type", quantity="none")
<i>Int1d</i>	bbnumber (description="Building Block Number", quantity="none")
<i>Int1d</i>	sequenceNumber (description="Integration Sequence Number", quantity="none")
<i>Int1d</i>	integrations (description="Number of Integrations", quantity="none")

<i>Int1d</i>	buffer (description="Integration Buffer", quantity="none")
<i>Int1d</i>	nrbytes (description="Number of Bytes", quantity="none")
<i>Int1d</i>	bitshift (description="Bit Shift", quantity="none")
<i>Long1d</i>	packetTime (description="Packetization Time", quantity="none")
<i>Long1d</i>	obsTime (description="Observation Time", quantity="none")
<i>Int1d</i>	rowflag (description="Dataframe Flag", quantity="none")
<i>Int1d</i>	df_transfer (description="DataFrame Transfer Counter", quantity="none")
<i>Double1d</i>	Chopper (description="Actual chopper positions", quantity="none")
<i>Double1d</i>	cmd_chopper (description="Commanded chopper positions", quantity="none")
<i>Bool1d</i>	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
<i>Double1d</i>	frequency_monitor (description="LSU Frequency Monitor", quantity="none")
<i>Int2d</i>	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")
<i>Int1d</i>	scancount (description="Integrated Scan Count", quantity="none")
<i>Double3d</i>	dark (description="Dark Current Data", quantity="none")
<i>Double2d</i>	channels (description="Channel", quantity="pixel")
<i>Int1d</i>	hk_transfer (description="hk_transfer", quantity="none")
<i>Int2d</i>	Band_ATT (description="null", quantity="none")
<i>Int1d</i>	IN_ATT (description="null", quantity="none")
<i>Double2d</i>	hot_cold (description="Hot and cold temperatures of the Blackbody Calibrator", quantity="K")
<i>Double1d</i>	MJC_Hor (description="Calibrated mixer junction current, horizontal band 4", quantity="mA")
<i>Double1d</i>	MJC_Ver (description="Calibrated mixer junction current, vertical band 4", quantity="mA")
<i>Double1d</i>	LoFrequency (description="Local Oscillator Frequency", quantity="GHz")
<i>Double1d</i>	longitude (description="longitude (RA in equatorial coord)", quantity="deg")
<i>Double1d</i>	latitude (description="latitude (Decl in equatorial coord)", quantity="deg")
<i>Double1d</i>	posAngle (description="Position Angle", quantity="deg")
<i>Double1d</i>	longitudeError (description="longitude errors", quantity="arcsec")
<i>Double1d</i>	latitudeError (description="latitude errors", quantity="arcsec")
<i>Double1d</i>	posAngleError (description="Position Angle errors", quantity="arcsec")
<i>Double1d</i>	longitude_cmd (description="longitude (RA in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	latitude_cmd (description="latitude (Decl in equatorial coord) average H and V", quantity="deg")
<i>Int1d</i>	rasterLineNum (description="Raster line number", quantity="1")

<i>Int1d</i>	rasterColumnNum (description="Raster Column number", quantity="1")
<i>Int1d</i>	scanLineNum (description="Scan line number", quantity="1")
<i>Int1d</i>	nodCycleNum (description="Switching/nodding cycle number", quantity="1")
<i>Int1d</i>	customMapPointNum (description="Custom map pointing number", quantity="1")
<i>Int2d</i>	badLo (description="bit 0=Bad LO; bit 1=Weak_spur; bit 2=Strong_spur; bit 3=Strong_instability; bit 4=IF_saturation;", quantity="none")

1.1.19. HIFI Product Level 1 - HIFI Calibration Product

<i>product</i> (type="GenericPipelineCalibrationOutput", description="HIFI Calibration Product")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	version (description="Version of this product")
StringParameter	name (description="Name of this product")
LongParameter	obsid (description="Observation Identifier")
LongParameter	apid (description="Application Programme Identifier")
StringParameter	Band (description="Active band")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	obsMode (description="Observation Mode")
LongParameter	odNumber (description="Operational day number")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
StringParameter	calVersion (description="HIFI calibration version")
<i>Columns</i>	
<i>table dataset</i>	(name="summary", description="null")
<i>Metadata</i>	

Columns	
<i>Int1d</i>	dataset (description="null", quantity="none")
<i>Bool1d</i>	suspectLo (description="null", quantity="none")
<i>Bool1d</i>	mcdHot (description="null", quantity="none")
<i>Bool1d</i>	unalignedHK (description="null", quantity="none")
<i>Bool1d</i>	mcdRef (description="null", quantity="none")
<i>Bool1d</i>	mcdOff (description="null", quantity="none")
<i>Double1d</i>	SaturatedPixel (description="null", quantity="none")
<i>Double1d</i>	NotCalibrated (description="null", quantity="none")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

1.1.20. HIFI Product Level 1 - Phase Information for Buffer, Chopper and LOFrequency

<i>product (type="GenericPipelineCalibrationOutput", description="Phase Information for Buffer, Chopper and LOFrequency")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	version (description="Version of this product")
StringParameter	name (description="Name of this product")
LongParameter	obsid (description="Observation Identifier")
LongParameter	apid (description="Application Programme Identifier")
StringParameter	Band (description="Active band")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	obsMode (description="Observation Mode")
LongParameter	odNumber (description="Operational day number")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")

StringParameter	calVersion (description="HIFI calibration version")		
Columns			
table dataset	(name="summary", description="null")		
Metadata			
Columns			
	Int1d	dataset (description="Dataset key", quantity="none")	
	String1d	type (description="List of types for each block", quantity="none")	
	Int1d	length (description="Length of each block", quantity="none")	
	Int1d	bbid (description="Unique bbtype of each block", quantity="none")	
	Bool1d	isLine (description="ON/OFF", quantity="none")	
	String1d	chopperPattern (description="Pattern of chopper positions", quantity="none")	
	String1d	chopper (description="Different chopper positions", quantity="none")	
	String1d	initialChopper (description="Initial chopper position", quantity="none")	
	String1d	loPattern (description="Pattern of LO frequencies", quantity="none")	
	Double2d	loFrequencies (description="Different LO frequencies", quantity="none")	
	Double1d	initialLoF (description="Initial LO frequency", quantity="none")	
	String1d	bufferPattern (description="Pattern of buffer values", quantity="none")	
	String1d	buffers (description="Different buffer values", quantity="none")	
	Int1d	initialBuffer (description="Initial buffer", quantity="none")	
	Int1d	loFGroup (description="LO Frequency Group", quantity="none")	
	Int1d	bandpassLoFGroup (description="LO Frequency Group of the bandpass used", quantity="none")	
	Int1d	offLoFGroup (description="LO Frequency Group of the OFF data used", quantity="none")	
		()	
	composite dataset	Dataset similar to the one above with (name="History", description="History of product")	

1.1.21. HIFI Product Level 1 - HIFI Calibration Product

<i>product (type="GenericPipelineCalibrationOutput", description="HIFI Calibration Product")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")

StringParameter	formatVersion (description="Version of product format")
LongParameter	version (description="Version of this product")
StringParameter	name (description="Name of this product")
LongParameter	obsid (description="Observation Identifier")
LongParameter	apid (description="Application Programme Identifier")
StringParameter	Band (description="Active band")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	obsMode (description="Observation Mode")
LongParameter	odNumber (description="Operational day number")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
StringParameter	calVersion (description="HIFI calibration version")
Columns	
table dataset	(name="summary", description="null")
Metadata	
Columns	
IntId	dataset (description="null", quantity="none")
BoolId	suspectLo (description="null", quantity="none")
BoolId	mcdHot (description="null", quantity="none")
BoolId	unalignedHK (description="null", quantity="none")
BoolId	mcdOff (description="null", quantity="none")
BoolId	mcdRef (description="null", quantity="none")
DoubleId	SaturatedPixel (description="null", quantity="none")
DoubleId	NotCalibrated (description="null", quantity="none")
	()
composite dataset	Dataset similar to the one above with (name="History", description="History of product")

1.1.22. HIFI Product Level 1 - WBS Spectrum Dataset of type: tune

<i>product (type="herschel.ia.dataset.Product(HifiSpectrumDataset)", description="WBS Spectrum Dataset of type: tune")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")

StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of Channels")
StringParameter	rowflag_9 (description="No valid Chopper information. value = 512")
StringParameter	rowflag_10 (description="No valid Commanded Chopper information. value = 1024")
StringParameter	rowflag_11 (description="No valid Frequency Monitor information. value = 2048")
StringParameter	rowflag_12 (description="No valid LO code offset information. value = 4096")
StringParameter	rowflag_13 (description="No valid LO code main information. value = 8192")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")

DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
StringParameter	badLoBand_2 (description="bad Lo in band", quantity="degrees")
LongParameter	Pipeline applied (description="Define which pipeline modules have been applied to the data.\u000A bit 0 = not used \u000A bit 1 = Scan count correction \u000A bit 3 = Dark correction \u000A bit 4 = Non Linearity correction \u000A bit 5 = Zero correction \u000A bit 6 = Frequency calibration applied \u000A", quantity="degrees")
BooleanParameter	isMasked (description="Bad Pixels have been flagged", quantity="degrees")
DoubleParameter	resolution (description="Mean resolution from all combs spectra", quantity="MHz")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="MHz")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="MHz")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="MHz")
LongParameter	subbandstart_3 (description="Starting channel for subband 3", quantity="MHz")
LongParameter	subbandstart_4 (description="Starting channel for subband 4", quantity="MHz")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="MHz")

LongParameter	subbandlength_2 (description="Length of subband 2", quantity="MHz")
LongParameter	subbandlength_3 (description="Length of subband 3", quantity="MHz")
LongParameter	subbandlength_4 (description="Length of subband 4", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="MHz")
DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="MHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
StringParameter	fileName (description="filename for exporting purposes", quantity="m2")
<i>Columns</i>	
<i>table dataset</i>	(name="0001", description="WBS Spectrum Dataset of type: tune")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of Channels")
StringParameter	rowflag_9 (description="No valid Chopper information. value = 512")
StringParameter	rowflag_10 (description="No valid Commanded Chopper information. value = 1024")
StringParameter	rowflag_11 (description="No valid Frequency Monitor information. value = 2048")
StringParameter	rowflag_12 (description="No valid LO code offset information. value = 4096")
StringParameter	rowflag_13 (description="No valid LO code main information. value = 8192")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")

LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")

LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
StringParameter	badLoBand_2 (description="bad Lo in band", quantity="degrees")
LongParameter	Pipeline applied (description="Define which pipeline modules have been applied to the data.\u000A bit 0 = not used \u000A bit 1 = Scan count correction \u000A bit 3 = Dark correction \u000A bit 4 = Non Linearity correction \u000A bit 5 = Zero correction \u000A bit 6 = Frequency calibration applied \u000A", quantity="degrees")
BooleanParameter	isMasked (description="Bad Pixels have been flagged", quantity="degrees")
DoubleParameter	resolution (description="Mean resolution from all combs spectra", quantity="MHz")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="MHz")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="MHz")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="MHz")
LongParameter	subbandstart_3 (description="Starting channel for subband 3", quantity="MHz")
LongParameter	subbandstart_4 (description="Starting channel for subband 4", quantity="MHz")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="MHz")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="MHz")
LongParameter	subbandlength_3 (description="Length of subband 3", quantity="MHz")
LongParameter	subbandlength_4 (description="Length of subband 4", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="MHz")
DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="MHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
<i>Columns</i>	
<i>Int1d</i>	bbtype (description="Building Block Type", quantity="none")
<i>Int1d</i>	bbnumber (description="Building Block Number", quantity="none")

<i>Int1d</i>	sequenceNumber (description="Integration Sequence Number", quantity="none")
<i>Int1d</i>	integrations (description="Number of Integrations", quantity="none")
<i>Int1d</i>	buffer (description="Integration Buffer", quantity="none")
<i>Int1d</i>	nrbytes (description="Number of Bytes", quantity="none")
<i>Int1d</i>	bitshift (description="Bit Shift", quantity="none")
<i>Long1d</i>	packetTime (description="Packetization Time", quantity="none")
<i>Long1d</i>	obsTime (description="Observation Time", quantity="none")
<i>Int1d</i>	rowflag (description="Dataframe Flag", quantity="none")
<i>Int1d</i>	df_transfer (description="DataFrame Transfer Counter", quantity="none")
<i>Double1d</i>	Chopper (description="Actual chopper positions", quantity="none")
<i>Double1d</i>	cmd_chopper (description="Commanded chopper positions", quantity="none")
<i>Bool1d</i>	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
<i>Double1d</i>	frequency_monitor (description="LSU Frequency Monitor", quantity="none")
<i>Int2d</i>	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")
<i>Int1d</i>	scancount (description="Integrated Scan Count", quantity="none")
<i>Double3d</i>	dark (description="Dark Current Data", quantity="none")
<i>Int1d</i>	hk_transfer (description="hk_transfer", quantity="none")
<i>Int2d</i>	Band_ATT (description="null", quantity="none")
<i>Int1d</i>	IN_ATT (description="null", quantity="none")
<i>Double2d</i>	hot_cold (description="Hot and cold temperatures of the Blackbody Calibrator", quantity="K")
<i>Double1d</i>	MJC_Hor (description="Calibrated mixer junction current, horizontal band 4", quantity="mA")
<i>Double1d</i>	MJC_Ver (description="Calibrated mixer junction current, vertical band 4", quantity="mA")
<i>Double1d</i>	LoFrequency (description="Local Oscillator Frequency", quantity="GHz")
<i>Double1d</i>	longitude (description="longitude (RA in equatorial coord)", quantity="deg")
<i>Double1d</i>	latitude (description="latitude (Decl in equatorial coord)", quantity="deg")
<i>Double1d</i>	posAngle (description="Position Angle", quantity="deg")
<i>Double1d</i>	longitudeError (description="longitude errors", quantity="arcsec")
<i>Double1d</i>	latitudeError (description="latitude errors", quantity="arcsec")
<i>Double1d</i>	posAngleError (description="Position Angle errors", quantity="arcsec")
<i>Double1d</i>	longitude_cmd (description="longitude (RA in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	latitude_cmd (description="latitude (Decl in equatorial coord) average H and V", quantity="deg")

<i>Int1d</i>	rasterLineNum (description="Raster line number", quantity="1")
<i>Int1d</i>	rasterColumnNum (description="Raster Column number", quantity="1")
<i>Int1d</i>	scanLineNum (description="Scan line number", quantity="1")
<i>Int1d</i>	nodCycleNum (description="Switching/nodding cycle number", quantity="1")
<i>Int1d</i>	customMapPointNum (description="Custom map pointing number", quantity="1")
<i>Int2d</i>	badLo (description="bit 0=Bad LO; bit 1=Weak_spur; bit 2=Strong_spur; bit 3=Strong_instability; bit 4=IF_saturation;", quantity="none")
<i>Double1d</i>	integrationTime (description="Integration duration in seconds", quantity="s")
<i>Double2d</i>	flux_1 (description="WBS flux (in counts)", quantity="none")
<i>Double2d</i>	flux_2 (description="WBS flux (in counts)", quantity="none")
<i>Double2d</i>	flux_3 (description="WBS flux (in counts)", quantity="none")
<i>Double2d</i>	flux_4 (description="WBS flux (in counts)", quantity="none")
<i>Int2d</i>	flag_1 (description="flag", quantity="none")
<i>Int2d</i>	flag_2 (description="flag", quantity="none")
<i>Int2d</i>	flag_3 (description="flag", quantity="none")
<i>Int2d</i>	flag_4 (description="flag", quantity="none")
<i>Double2d</i>	frequency_1 (description="Intermediate Frequency", quantity="MHz")
<i>Double2d</i>	frequency_2 (description="Intermediate Frequency", quantity="MHz")
<i>Double2d</i>	frequency_3 (description="Intermediate Frequency", quantity="MHz")
<i>Double2d</i>	frequency_4 (description="Intermediate Frequency", quantity="MHz")

1.1.23. HIFI Product Level 1 - WBS Spectrum Dataset

<i>product (type="herschel.ia.dataset.Product(HifiSpectrumDataset)", description="WBS Spectrum Dataset")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")

LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of Channels")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")

StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AH1_DPACT_C (description="HK HF_AH1_DPACT_C is Out of limit for 26 (100%) spectra", quantity="degrees")
BooleanParameter	diplexerCurrent (description="FPU: The values of diplexerCurrent are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 26 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 26 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 26 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 26 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
StringParameter	badLoBand_1 (description="bad Lo in band", quantity="degrees")
LongParameter	Pipeline applied (description="Define which pipeline modules have been applied to the data.\u000A bit 0 = not used \u000A bit 1 = Scan count correction \u000A bit 3 = Dark correction \u000A bit 4 = Non Linearity correction \u000A bit 5 = Zero correction \u000A bit 6 = Frequency calibration applied \u000A", quantity="degrees")
BooleanParameter	isMasked (description="Bad Pixels have been flagged", quantity="degrees")
DoubleParameter	resolution (description="Mean resolution from all combs spectra", quantity="MHz")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrumDataset", quantity="MHz")

DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")
DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="GHz")
DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="GHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="m2")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="m2")
LongParameter	subbandstart_3 (description="Starting channel for subband 3", quantity="m2")
LongParameter	subbandstart_4 (description="Starting channel for subband 4", quantity="m2")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="m2")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="m2")
LongParameter	subbandlength_3 (description="Length of subband 3", quantity="m2")
LongParameter	subbandlength_4 (description="Length of subband 4", quantity="m2")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="m2")
StringParameter	fileName (description="filename for exporting purposes", quantity="m2")
<i>Columns</i>	
<i>table dataset</i>	(name="0101", description="WBS Spectrum Dataset")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of Channels")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")

LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")

LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AH1_DPACT_C (description="HK HF_AH1_DPACT_C is Out of limit for 26 (100%) spectra", quantity="degrees")
BooleanParameter	diplexerCurrent (description="FPU: The values of diplexerCurrent are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 26 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 26 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 26 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 26 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
StringParameter	badLoBand_1 (description="bad Lo in band", quantity="degrees")
LongParameter	Pipeline applied (description="Define which pipeline modules have been applied to the data.\u000A bit 0 = not used \u000A bit 1 = Scan count correction \u000A bit 3 = Dark correction \u000A bit 4 = Non Linearity correction \u000A bit 5 = Zero correction \u000A bit 6 = Frequency calibration applied \u000A", quantity="degrees")
BooleanParameter	isMasked (description="Bad Pixels have been flagged", quantity="degrees")
DoubleParameter	resolution (description="Mean resolution from all combs spectra", quantity="MHz")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrum-Dataset", quantity="MHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")
DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="GHz")

DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="GHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="m2")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="m2")
LongParameter	subbandstart_3 (description="Starting channel for subband 3", quantity="m2")
LongParameter	subbandstart_4 (description="Starting channel for subband 4", quantity="m2")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="m2")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="m2")
LongParameter	subbandlength_3 (description="Length of subband 3", quantity="m2")
LongParameter	subbandlength_4 (description="Length of subband 4", quantity="m2")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="m2")
<i>Columns</i>	
<i>Double2d</i>	flux_1 (description="Intensity", quantity="K")
<i>Double2d</i>	frequency_1 (description="Intermediate Frequency", quantity="MHz")
<i>Double2d</i>	weight_1 (description="null", quantity="none")
<i>Int2d</i>	flag_1 (description="null", quantity="none")
<i>Double2d</i>	flux_2 (description="Intensity", quantity="K")
<i>Double2d</i>	frequency_2 (description="Intermediate Frequency", quantity="MHz")
<i>Double2d</i>	weight_2 (description="null", quantity="none")
<i>Int2d</i>	flag_2 (description="null", quantity="none")
<i>Double2d</i>	flux_3 (description="Intensity", quantity="K")
<i>Double2d</i>	frequency_3 (description="Intermediate Frequency", quantity="MHz")
<i>Double2d</i>	weight_3 (description="null", quantity="none")
<i>Int2d</i>	flag_3 (description="null", quantity="none")
<i>Double2d</i>	flux_4 (description="Intensity", quantity="K")
<i>Double2d</i>	frequency_4 (description="Intermediate Frequency", quantity="MHz")
<i>Double2d</i>	weight_4 (description="null", quantity="none")
<i>Int2d</i>	flag_4 (description="null", quantity="none")
<i>Int1d</i>	rasterLineNum (description="Raster line number", quantity="1")
<i>Double1d</i>	cmd_chopper (description="Commanded chopper positions", quantity="none")

<i>Double1d</i>	posAngle (description="Position Angle", quantity="deg")
<i>Double1d</i>	latitude (description="latitude (Decl in equatorial coord)", quantity="deg")
<i>Int1d</i>	nodCycleNum (description="Switching/nodding cycle number", quantity="1")
<i>Int2d</i>	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")
<i>Int1d</i>	bitshift (description="Bit Shift", quantity="none")
<i>Double1d</i>	MJC_Hor (description="Calibrated mixer junction current, horizontal band 4", quantity="mA")
<i>Double1d</i>	posAngleError (description="Position Angle errors", quantity="arcsec")
<i>Double1d</i>	longitudeError (description="longitude errors", quantity="arcsec")
<i>Double3d</i>	dark (description="Dark Current Data", quantity="none")
<i>Int1d</i>	scancount (description="Integrated Scan Count", quantity="none")
<i>Int1d</i>	buffer (description="Integration Buffer", quantity="none")
<i>Int1d</i>	rasterColumnNum (description="Raster Column number", quantity="1")
<i>Int1d</i>	df_transfer (description="DataFrame Transfer Counter", quantity="none")
<i>Double1d</i>	longitude (description="longitude (RA in equatorial coord)", quantity="deg")
<i>Int1d</i>	sequenceNumber (description="Integration Sequence Number", quantity="none")
<i>Double1d</i>	frequency_monitor (description="LSU Frequency Monitor", quantity="MHz")
<i>Int1d</i>	scanLineNum (description="Scan line number", quantity="1")
<i>Int1d</i>	bbnumber (description="Building Block Number", quantity="none")
<i>Long1d</i>	obsTime (description="Observation Time", quantity="none")
<i>Double1d</i>	MJC_Ver (description="Calibrated mixer junction current, vertical band 4", quantity="mA")
<i>Int1d</i>	rowflag (description="Dataframe Flag", quantity="none")
<i>Int1d</i>	bbtype (description="Building Block Type", quantity="none")
<i>Int1d</i>	IN_ATT (description="null", quantity="none")
<i>Int1d</i>	customMapPointNum (description="Custom map pointing number", quantity="1")
<i>Double1d</i>	latitudeError (description="latitude errors", quantity="arcsec")
<i>Bool1d</i>	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
<i>Long1d</i>	hkFlag (description="{HF_AV2_G_SIF1_V=17, HF_AH1_MXBIAS_C=0, HF_AH1_MXMG_C=4, HF_AV2_G_SIF3_V=21, HF_AH1_DPACT_V=10, HF_AV2_G_SIF2_V=19, HF_AH2_G_SIF3_V=20, HF_AH2_G_SIF2_V=18, HF_AH2_G_SIF1_V=16, HF_AH2_G_FIF1_V=12, HF_AH2_G_FIF2_V=14, HF_AV1_MXMG_V=7, HF_AP_SCHS_CT=22, HF_AV1_MXBIAS_V=3, HF_AV1_DPACT_C=27, HL_R_M1_1A_C=28, HF_APR_CH_ROT=8, HF_APR_SCC-

	S_CT=24, HF_AV2_G_FIF1_V=13, HF_AV2_G_FIF2_V=15, HL_R_M1_7A_C=28, HF_AH1_MXMG_V=6, HF_AR_SCHS_CT=23, HF_APR_S2K_CT=25, HL_R_M1_7B_C=28, HF_AH1_MXBIAS_V=2, HF_AV1_MXBIAS_C=1, HF_AV1_MXMG_C=5, HF_DPR_CH_ROT2=9, HF_AH1_DPACT_C=26, HL_R_M2_3B_C=28, HF_AV1_DPACT_V=11}", quantity="none")
<i>Double1d</i>	latitude_cmd (description="latitude (Decl in equatorial coord) average H and V", quantity="deg")
<i>Int1d</i>	nrbytes (description="Number of Bytes", quantity="none")
<i>Long1d</i>	packetTime (description="Packetization Time", quantity="none")
<i>Double1d</i>	longitude_cmd (description="longitude (RA in equatorial coord) average H and V", quantity="deg")
<i>Int2d</i>	badLo (description="bit 0=Bad LO; bit 1=Weak_spur; bit 2=Strong_spur; bit 3=Strong_instability; bit 4=IF_saturation;", quantity="none")
<i>Int2d</i>	Band_ATT (description="null", quantity="none")
<i>Double1d</i>	LoFrequency (description="The LO frequency possibly adjusted for Doppler shifts in the data.", quantity="GHz")
<i>Double1d</i>	integrationTime (description="Integration duration in seconds", quantity="s")
<i>Double1d</i>	tsys_median (description="Median of the Tsys array - subbands concatenated.", quantity="none")
<i>Int1d</i>	integrations (description="Number of Integrations", quantity="none")
<i>Double1d</i>	Chopper (description="Actual chopper positions", quantity="none")
<i>Int1d</i>	hk_transfer (description="hk_transfer", quantity="none")
<i>Double2d</i>	hot_cold (description="Hot and cold temperatures of the Blackbody Calibrator", quantity="K")
<i>Double1d</i>	LoFrequency_measured (description="Local Oscillator Frequency", quantity="GHz")
<i>Double1d</i>	velocity_hso_1 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	velocity_hso_2 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	velocity_hso_3 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")

1.1.24. HIFI Product Level 1 - WBS Spectrum Dataset of type: comb

<i>product (type="herschel.ia.dataset.Product(HifiSpectrumDataset)", description="WBS Spectrum Dataset of type: comb")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")

StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of Channels")
StringParameter	rowflag_9 (description="No valid Chopper information. value = 512")
StringParameter	rowflag_10 (description="No valid Commanded Chopper information. value = 1024")
StringParameter	rowflag_11 (description="No valid Frequency Monitor information. value = 2048")
StringParameter	rowflag_12 (description="No valid LO code offset information. value = 4096")
StringParameter	rowflag_13 (description="No valid LO code main information. value = 8192")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")

DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
StringParameter	badLoBand_1 (description="bad Lo in band", quantity="degrees")
LongParameter	Pipeline applied (description="Define which pipeline modules have been applied to the data.\u000A bit 0 = not used \u000A bit 1 = Scan count correction \u000A bit 3 = Dark correction \u000A bit 4 = Non Linearity correction \u000A bit 5 = Zero correction \u000A bit 6 = Frequency calibration applied \u000A", quantity="degrees")
BooleanParameter	isMasked (description="Bad Pixels have been flagged", quantity="degrees")
DoubleParameter	resolution (description="Mean resolution from all combs spectra", quantity="MHz")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="MHz")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="MHz")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="MHz")
LongParameter	subbandstart_3 (description="Starting channel for subband 3", quantity="MHz")
LongParameter	subbandstart_4 (description="Starting channel for subband 4", quantity="MHz")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="MHz")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="MHz")
LongParameter	subbandlength_3 (description="Length of subband 3", quantity="MHz")

LongParameter	subbandlength_4 (description="Length of subband 4", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of the Comb", quantity="MHz")
DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="MHz")
DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="MHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
StringParameter	fileName (description="filename for exporting purposes", quantity="m2")
Columns	
table dataset	(name="0201", description="WBS Spectrum Dataset of type: comb")
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of Channels")
StringParameter	rowflag_9 (description="No valid Chopper information. value = 512")
StringParameter	rowflag_10 (description="No valid Commanded Chopper information. value = 1024")
StringParameter	rowflag_11 (description="No valid Frequency Monitor information. value = 2048")
StringParameter	rowflag_12 (description="No valid LO code offset information. value = 4096")
StringParameter	rowflag_13 (description="No valid LO code main information. value = 8192")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")

LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")

LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
StringParameter	badLoBand_1 (description="bad Lo in band", quantity="degrees")
LongParameter	Pipeline applied (description="Define which pipeline modules have been applied to the data.\u000A bit 0 = not used \u000A bit 1 = Scan count correction \u000A bit 3 = Dark correction \u000A bit 4 = Non Linearity correction \u000A bit 5 = Zero correction \u000A bit 6 = Frequency calibration applied \u000A", quantity="degrees")
BooleanParameter	isMasked (description="Bad Pixels have been flagged", quantity="degrees")
DoubleParameter	resolution (description="Mean resolution from all combs spectra", quantity="MHz")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="MHz")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="MHz")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="MHz")
LongParameter	subbandstart_3 (description="Starting channel for subband 3", quantity="MHz")
LongParameter	subbandstart_4 (description="Starting channel for subband 4", quantity="MHz")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="MHz")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="MHz")
LongParameter	subbandlength_3 (description="Length of subband 3", quantity="MHz")
LongParameter	subbandlength_4 (description="Length of subband 4", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of the Comb", quantity="MHz")
DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="MHz")
DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="MHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
<i>Columns</i>	
<i>IntId</i>	bbtype (description="Building Block Type", quantity="none")

<i>Int1d</i>	bnumber (description="Building Block Number", quantity="none")
<i>Int1d</i>	sequenceNumber (description="Integration Sequence Number", quantity="none")
<i>Int1d</i>	integrations (description="Number of Integrations", quantity="none")
<i>Int1d</i>	buffer (description="Integration Buffer", quantity="none")
<i>Int1d</i>	nrbytes (description="Number of Bytes", quantity="none")
<i>Int1d</i>	bitshift (description="Bit Shift", quantity="none")
<i>Long1d</i>	packetTime (description="Packetization Time", quantity="none")
<i>Long1d</i>	obsTime (description="Observation Time", quantity="none")
<i>Int1d</i>	rowflag (description="Dataframe Flag", quantity="none")
<i>Int1d</i>	df_transfer (description="DataFrame Transfer Counter", quantity="none")
<i>Double1d</i>	Chopper (description="Actual chopper positions", quantity="none")
<i>Double1d</i>	cmd_chopper (description="Commanded chopper positions", quantity="none")
<i>Bool1d</i>	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
<i>Double1d</i>	frequency_monitor (description="LSU Frequency Monitor", quantity="none")
<i>Int2d</i>	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")
<i>Int1d</i>	scancount (description="Integrated Scan Count", quantity="none")
<i>Double3d</i>	dark (description="Dark Current Data", quantity="none")
<i>Int1d</i>	hk_transfer (description="hk_transfer", quantity="none")
<i>Int2d</i>	Band_ATT (description="null", quantity="none")
<i>Int1d</i>	IN_ATT (description="null", quantity="none")
<i>Double2d</i>	hot_cold (description="Hot and cold temperatures of the Blackbody Calibrator", quantity="K")
<i>Double1d</i>	MJC_Hor (description="Calibrated mixer junction current, horizontal band 4", quantity="mA")
<i>Double1d</i>	MJC_Ver (description="Calibrated mixer junction current, vertical band 4", quantity="mA")
<i>Double1d</i>	LoFrequency (description="Local Oscillator Frequency", quantity="GHz")
<i>Double1d</i>	longitude (description="longitude (RA in equatorial coord)", quantity="deg")
<i>Double1d</i>	latitude (description="latitude (Decl in equatorial coord)", quantity="deg")
<i>Double1d</i>	posAngle (description="Position Angle", quantity="deg")
<i>Double1d</i>	longitudeError (description="longitude errors", quantity="arcsec")
<i>Double1d</i>	latitudeError (description="latitude errors", quantity="arcsec")
<i>Double1d</i>	posAngleError (description="Position Angle errors", quantity="arcsec")
<i>Double1d</i>	longitude_cmd (description="longitude (RA in equatorial coord) average H and V", quantity="deg")

<i>Double1d</i>	latitude_cmd (description="latitude (Decl in equatorial coord) average H and V", quantity="deg")
<i>Int1d</i>	rasterLineNum (description="Raster line number", quantity="1")
<i>Int1d</i>	rasterColumnNum (description="Raster Column number", quantity="1")
<i>Int1d</i>	scanLineNum (description="Scan line number", quantity="1")
<i>Int1d</i>	nodCycleNum (description="Switching/nodding cycle number", quantity="1")
<i>Int1d</i>	customMapPointNum (description="Custom map pointing number", quantity="1")
<i>Int2d</i>	badLo (description="bit 0=Bad LO; bit 1=Weak_spur; bit 2=Strong_spur; bit 3=Strong_instability; bit 4=IF_saturation;", quantity="none")
<i>Double1d</i>	integrationTime (description="Integration duration in seconds", quantity="s")
<i>Double2d</i>	flux_1 (description="WBS flux (in counts)", quantity="none")
<i>Double2d</i>	flux_2 (description="WBS flux (in counts)", quantity="none")
<i>Double2d</i>	flux_3 (description="WBS flux (in counts)", quantity="none")
<i>Double2d</i>	flux_4 (description="WBS flux (in counts)", quantity="none")
<i>Int2d</i>	flag_1 (description="flag", quantity="none")
<i>Int2d</i>	flag_2 (description="flag", quantity="none")
<i>Int2d</i>	flag_3 (description="flag", quantity="none")
<i>Int2d</i>	flag_4 (description="flag", quantity="none")
<i>Double2d</i>	frequency_1 (description="Intermediate Frequency", quantity="MHz")
<i>Double2d</i>	frequency_2 (description="Intermediate Frequency", quantity="MHz")
<i>Double2d</i>	frequency_3 (description="Intermediate Frequency", quantity="MHz")
<i>Double2d</i>	frequency_4 (description="Intermediate Frequency", quantity="MHz")

1.2. HIFI Level 2 products

1.2.1. HIFI Product Level 2 - HRS Spectrum Dataset

<i>product (type="herschel.ia.dataset.Product(HifiSpectrumDataset)", description="HRS Spectrum Dataset")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")

DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of channels")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")

StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 42 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 42 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 42 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 42 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
BooleanParameter	Valid (description="HRS spectrum contains at least one subband", quantity="degrees")
LongParameter	subbands (description="Number of subbands", quantity="degrees")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="degrees")
StringParameter	wavename (description="Actual name of the WaveColumn", quantity="degrees")
DoubleParameter	channelSpacing (description="Delta of frequency in MHz between 2 points of a HRS spectrum", quantity="MHz")
DoubleParameter	resolution (description="HRS resolution when a Hanning windowing is used, i.e. the channelSpacing * 2", quantity="MHz")

StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrumDataset", quantity="MHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")
DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="GHz")
DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="GHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="m2")
StringParameter	temperatureScale (description="Temperature scale in use", quantity="m2")
StringParameter	sideband (description="status: upper or lower side band", quantity="m2")
StringParameter	gainMethod (description="Method used to parametrize the sideband gains coefficients.", quantity="m2")
DoubleParameter	lsbGain (description="Sideband gain level applied in the given lower side band spectrum.", quantity="m2")
DoubleParameter	lsbGain_0 (description="Sideband gain polynomial coefficients 0 applied.", quantity="m2")
DoubleParameter	lsbGain_1 (description="Sideband gain polynomial coefficients 1 applied.", quantity="m2")
DoubleParameter	lsbGain_2 (description="Sideband gain polynomial coefficients 2 applied.", quantity="m2")
DoubleParameter	lsbGain_3 (description="Sideband gain polynomial coefficients 3 applied.", quantity="m2")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="m2")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="m2")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="m2")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="m2")
DoubleParameter	resolution_resampled (description="Approximate resolution after resampling.", quantity="MHz")
DoubleParameter	frequencyWidth (description="The spacing of the frequency grids after resampling.", quantity="GHz")
StringParameter	fileName (description="filename for exporting purposes", quantity="GHz")
DoubleParameter	loFreqAvg (description="Average LO frequency Doppler-corrected to freqFrame (SPECSYS)", quantity="GHz")
<i>Columns</i>	
<i>table dataset</i>	(name="0001", description="HRS Spectrum Dataset")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")

DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of channels")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")

DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 42 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 42 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 42 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 42 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
BooleanParameter	Valid (description="HRS spectrum contains at least one subband", quantity="degrees")

LongParameter	subbands (description="Number of subbands", quantity="degrees")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="degrees")
StringParameter	wavename (description="Actual name of the WaveColumn", quantity="degrees")
DoubleParameter	channelSpacing (description="Delta of frequency in MHz between 2 points of a HRS spectrum", quantity="MHz")
DoubleParameter	resolution (description="HRS resolution when a Hanning windowing is used, i.e. the channelSpacing * 2", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrum-Dataset", quantity="MHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")
DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="GHz")
DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="GHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="m2")
StringParameter	temperatureScale (description="Temperature scale in use", quantity="m2")
StringParameter	sideband (description="status: upper or lower side band", quantity="m2")
StringParameter	gainMethod (description="Method used to parametrize the sideband gains coefficients.", quantity="m2")
DoubleParameter	lsbGain (description="Sideband gain level applied in the given lower side band spectrum.", quantity="m2")
DoubleParameter	lsbGain_0 (description="Sideband gain polynomial coefficients 0 applied.", quantity="m2")
DoubleParameter	lsbGain_1 (description="Sideband gain polynomial coefficients 1 applied.", quantity="m2")
DoubleParameter	lsbGain_2 (description="Sideband gain polynomial coefficients 2 applied.", quantity="m2")
DoubleParameter	lsbGain_3 (description="Sideband gain polynomial coefficients 3 applied.", quantity="m2")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="m2")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="m2")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="m2")

LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="m2")
DoubleParameter	resolution_resampled (description="Approximate resolution after resampling.", quantity="MHz")
DoubleParameter	frequencyWidth (description="The spacing of the frequency grids after resampling.", quantity="GHz")
DoubleParameter	loFreqAvg (description="Average LO frequency Doppler-corrected to freqFrame (SPECSYS)", quantity="GHz")
<i>Columns</i>	
<i>Double2d</i>	flux_1 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	lsbfrequency_1 (description="Lower sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_1 (description="null", quantity="none")
<i>Int2d</i>	flag_1 (description="null", quantity="none")
<i>Double2d</i>	flux_2 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	lsbfrequency_2 (description="Lower sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_2 (description="null", quantity="none")
<i>Int2d</i>	flag_2 (description="null", quantity="none")
<i>Long1d</i>	obsTime (description="Observation Time (corrected)", quantity="none")
<i>Long1d</i>	packetTime (description="Packetization Time", quantity="none")
<i>Int1d</i>	integrations (description="Number of Integrations", quantity="none")
<i>Double2d</i>	integrationTime (description="Integration duration in seconds", quantity="s")
<i>Int1d</i>	bbtype (description="Building Block Type", quantity="none")
<i>Double1d</i>	Chopper (description="Actual chopper positions", quantity="none")
<i>Double1d</i>	cmd_chopper (description="Commanded chopper positions", quantity="none")
<i>Double1d</i>	LoFrequency (description="The LO frequency possibly adjusted for Doppler shifts in the data.", quantity="GHz")
<i>Double1d</i>	frequency_monitor (description="LSU Frequency Monitor", quantity="MHz")
<i>Bool1d</i>	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
<i>Int1d</i>	rowflag (description="Dataframe Flag", quantity="none")
<i>Double2d</i>	hot_cold (description="Hot and cold temperatures of the Blackbody Calibrator", quantity="K")
<i>Double1d</i>	MJC_Ver (description="Calibrated mixer junction current, vertical band 1", quantity="mA")
<i>Double1d</i>	MJC_Hor (description="Calibrated mixer junction current, horizontal band 1", quantity="mA")
<i>Double1d</i>	longitude_cmd (description="longitude (RA in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	latitude_cmd (description="latitude (Decl in equatorial coord) average H and V", quantity="deg")

<i>Double1d</i>	longitude (description="longitude (RA in equatorial coord)", quantity="deg")
<i>Double1d</i>	latitude (description="latitude (Decl in equatorial coord)", quantity="deg")
<i>Double1d</i>	posAngle (description="Position Angle", quantity="deg")
<i>Double1d</i>	longitudeError (description="longitude errors", quantity="arcsec")
<i>Double1d</i>	latitudeError (description="latitude errors", quantity="arcsec")
<i>Double1d</i>	posAngleError (description="Position Angle errors", quantity="arcsec")
<i>Double1d</i>	tsys_median (description="Median of the Tsys array - subbands concatenated.", quantity="none")
<i>Double1d</i>	velocity_hso_1 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	velocity_hso_2 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	velocity_hso_3 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	LoFrequency_measured (description="Local Oscillator Frequency", quantity="GHz")
<i>Int1d</i>	rasterLineNum (description="Raster line number", quantity="1")
<i>Int2d</i>	colorIndex (description="null", quantity="none")
<i>Int1d</i>	bitshift (description="Bit Shift", quantity="none")
<i>Int2d</i>	type (description="null", quantity="none")
<i>Int2d</i>	resolution (description="null", quantity="none")
<i>Bool2d</i>	blockselection (description="Block Selection", quantity="none")
<i>Int1d</i>	buffer (description="Integration Buffer", quantity="none")
<i>Double2d</i>	Attenuators (description="IRM attenuator values : 0-15.5 dB", quantity="dB")
<i>Int1d</i>	scanLineNum (description="Scan line number", quantity="1")
<i>Double2d</i>	LO_F (description="LO Frequency values", quantity="MHz")
<i>Int1d</i>	customMapPointNum (description="Custom map pointing number", quantity="1")
<i>Int2d</i>	sampler (description="null", quantity="none")
<i>Int1d</i>	nrbytes (description="Number of Bytes", quantity="none")
<i>Int2d</i>	LO_S (description="Status of the LO : Locked (=1) / Unlocked (=0)", quantity="none")
<i>Int2d</i>	channels (description="null", quantity="none")
<i>Int2d</i>	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")
<i>String1d</i>	PoI_S (description="Polar used : H/V", quantity="none")
<i>Int1d</i>	rasterColumnNum (description="Raster Column number", quantity="1")
<i>String1d</i>	Unit_ID_S (description="Unit used : QM/FM", quantity="none")
<i>Int2d</i>	cuts (description="null", quantity="none")
<i>String1d</i>	Switch_S (description="Status of the input IF Switch : H/V", quantity="none")

<i>Long1d</i>	hkFlag (description="{HF_AV2_G_SIF1_V=17, HF_AH1_MXBIAS_C=0, HF_AH1_MXMG_C=4, HF_AV2_G_SIF3_V=21, HF_AH1_DPACT_V=10, HF_AV2_G_SIF2_V=19, HF_AH2_G_SIF3_V=20, HF_AH2_G_SIF2_V=18, HF_AH2_G_SIF1_V=16, HF_AH2_G_FIF1_V=12, HF_AH2_G_FIF2_V=14, HF_AV1_MXMG_V=7, HF_AP_SCHS_CT=22, HF_AV1_MXBIAS_V=3, HF_AV1_DPACT_C=27, HL_R_M1_1A_C=28, HF_APR_CH_ROT=8, HF_APR_SCC_S_CT=24, HF_AV2_G_FIF1_V=13, HF_AV2_G_FIF2_V=15, HL_R_M1_7A_C=28, HF_AH1_MXMG_V=6, HF_AR_SCHS_CT=23, HF_APR_S2K_CT=25, HL_R_M1_7B_C=28, HF_AH1_MXBIAS_V=2, HF_AV1_MXBIAS_C=1, HF_AV1_MXMG_C=5, HF_DPR_CH_ROT2=9, HF_AH1_DPACT_C=26, HL_R_M2_3B_C=28, HF_AV1_DPACT_V=11}", quantity="none")
<i>Int2d</i>	LO_F_raw (description="LO Frequency raw values", quantity="MHz")

1.2.2. HIFI Product Level 2 - HRS Spectrum Dataset

<i>product (type="herschel.ia.dataset.Product(HifiSpectrumDataset)", description="HRS Spectrum Dataset")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of channels")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")

StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")

LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 42 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 42 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 42 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 42 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
BooleanParameter	Valid (description="HRS spectrum contains at least one subband", quantity="degrees")
LongParameter	subbands (description="Number of subbands", quantity="degrees")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="degrees")
StringParameter	wavename (description="Actual name of the WaveColumn", quantity="degrees")
DoubleParameter	channelSpacing (description="Delta of frequency in MHz between 2 points of a HRS spectrum", quantity="MHz")
DoubleParameter	resolution (description="HRS resolution when a Hanning windowing is used, i.e. the channelSpacing * 2", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrumDataset", quantity="MHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")
DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="GHz")
DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="GHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="m2")
StringParameter	temperatureScale (description="Temperature scale in use", quantity="m2")

StringParameter	sideband (description="status: upper or lower side band", quantity="m2")
StringParameter	gainMethod (description="Method used to parametrize the sideband gains coefficients.", quantity="m2")
DoubleParameter	usbGain (description="Sideband gain level applied in the given upper side band spectrum.", quantity="m2")
DoubleParameter	usbGain_0 (description="Sideband gain polynomial coefficients 0 applied.", quantity="m2")
DoubleParameter	usbGain_1 (description="Sideband gain polynomial coefficients 1 applied.", quantity="m2")
DoubleParameter	usbGain_2 (description="Sideband gain polynomial coefficients 2 applied.", quantity="m2")
DoubleParameter	usbGain_3 (description="Sideband gain polynomial coefficients 3 applied.", quantity="m2")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="m2")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="m2")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="m2")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="m2")
DoubleParameter	resolution_resampled (description="Approximate resolution after resampling.", quantity="MHz")
DoubleParameter	frequencyWidth (description="The spacing of the frequency grids after resampling.", quantity="GHz")
StringParameter	fileName (description="filename for exporting purposes", quantity="GHz")
DoubleParameter	loFreqAvg (description="Average LO frequency Doppler-corrected to freqFrame (SPECSYS)", quantity="GHz")
<i>Columns</i>	
<i>table dataset</i>	(name="0001", description="HRS Spectrum Dataset")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of channels")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")
LongParameter	OBS-revision (description="On Board Software revision")

LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")

StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 42 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 42 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 42 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 42 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
BooleanParameter	Valid (description="HRS spectrum contains at least one subband", quantity="degrees")
LongParameter	subbands (description="Number of subbands", quantity="degrees")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="degrees")
StringParameter	wavename (description="Actual name of the WaveColumn", quantity="degrees")
DoubleParameter	channelSpacing (description="Delta of frequency in MHz between 2 points of a HRS spectrum", quantity="MHz")
DoubleParameter	resolution (description="HRS resolution when a Hanning windowing is used, i.e. the channelSpacing * 2", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrum-Dataset", quantity="MHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")
DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="GHz")

DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="GHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="m2")
StringParameter	temperatureScale (description="Temperature scale in use", quantity="m2")
StringParameter	sideband (description="status: upper or lower side band", quantity="m2")
StringParameter	gainMethod (description="Method used to parametrize the sideband gains coefficients.", quantity="m2")
DoubleParameter	usbGain (description="Sideband gain level applied in the given upper side band spectrum.", quantity="m2")
DoubleParameter	usbGain_0 (description="Sideband gain polynomial coefficients 0 applied.", quantity="m2")
DoubleParameter	usbGain_1 (description="Sideband gain polynomial coefficients 1 applied.", quantity="m2")
DoubleParameter	usbGain_2 (description="Sideband gain polynomial coefficients 2 applied.", quantity="m2")
DoubleParameter	usbGain_3 (description="Sideband gain polynomial coefficients 3 applied.", quantity="m2")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="m2")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="m2")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="m2")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="m2")
DoubleParameter	resolution_resampled (description="Approximate resolution after resampling.", quantity="MHz")
DoubleParameter	frequencyWidth (description="The spacing of the frequency grids after resampling.", quantity="GHz")
DoubleParameter	loFreqAvg (description="Average LO frequency Doppler-corrected to freqFrame (SPECSYS)", quantity="GHz")
<i>Columns</i>	
<i>Double2d</i>	flux_1 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	usbfrequency_1 (description="Upper sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_1 (description="null", quantity="none")
<i>Int2d</i>	flag_1 (description="null", quantity="none")
<i>Double2d</i>	flux_2 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	usbfrequency_2 (description="Upper sideband frequency", quantity="GHz")

<i>Double2d</i>	weight_2 (description="null", quantity="none")
<i>Int2d</i>	flag_2 (description="null", quantity="none")
<i>Long1d</i>	obsTime (description="Observation Time (corrected)", quantity="none")
<i>Long1d</i>	packetTime (description="Packetization Time", quantity="none")
<i>Int1d</i>	integrations (description="Number of Integrations", quantity="none")
<i>Double2d</i>	integrationTime (description="Integration duration in seconds", quantity="s")
<i>Int1d</i>	bbtype (description="Building Block Type", quantity="none")
<i>Double1d</i>	Chopper (description="Actual chopper positions", quantity="none")
<i>Double1d</i>	cmd_chopper (description="Commanded chopper positions", quantity="none")
<i>Double1d</i>	LoFrequency (description="The LO frequency possibly adjusted for Doppler shifts in the data.", quantity="GHz")
<i>Double1d</i>	frequency_monitor (description="LSU Frequency Monitor", quantity="MHz")
<i>Bool1d</i>	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
<i>Int1d</i>	rowflag (description="Dataframe Flag", quantity="none")
<i>Double2d</i>	hot_cold (description="Hot and cold temperatures of the Blackbody Calibrator", quantity="K")
<i>Double1d</i>	MJC_Ver (description="Calibrated mixer junction current, vertical band 1", quantity="mA")
<i>Double1d</i>	MJC_Hor (description="Calibrated mixer junction current, horizontal band 1", quantity="mA")
<i>Double1d</i>	longitude_cmd (description="longitude (RA in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	latitude_cmd (description="latitude (Decl in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	longitude (description="longitude (RA in equatorial coord)", quantity="deg")
<i>Double1d</i>	latitude (description="latitude (Decl in equatorial coord)", quantity="deg")
<i>Double1d</i>	posAngle (description="Position Angle", quantity="deg")
<i>Double1d</i>	longitudeError (description="longitude errors", quantity="arcsec")
<i>Double1d</i>	latitudeError (description="latitude errors", quantity="arcsec")
<i>Double1d</i>	posAngleError (description="Position Angle errors", quantity="arcsec")
<i>Double1d</i>	tsys_median (description="Median of the Tsys array - subbands concatenated.", quantity="none")
<i>Double1d</i>	velocity_hso_1 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	velocity_hso_2 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	velocity_hso_3 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")

<i>Double1d</i>	LoFrequency_measured (description="Local Oscillator Frequency", quantity="GHz")
<i>Int1d</i>	rasterLineNum (description="Raster line number", quantity="1")
<i>Int2d</i>	colorIndex (description="null", quantity="none")
<i>Int1d</i>	bitshift (description="Bit Shift", quantity="none")
<i>Int2d</i>	type (description="null", quantity="none")
<i>Int2d</i>	resolution (description="null", quantity="none")
<i>Bool2d</i>	blockselection (description="Block Selection", quantity="none")
<i>Int1d</i>	buffer (description="Integration Buffer", quantity="none")
<i>Double2d</i>	Attenuators (description="IRM attenuator values : 0-15.5 dB", quantity="dB")
<i>Int1d</i>	scanLineNum (description="Scan line number", quantity="1")
<i>Double2d</i>	LO_F (description="LO Frequency values", quantity="MHz")
<i>Int1d</i>	customMapPointNum (description="Custom map pointing number", quantity="1")
<i>Int2d</i>	sampler (description="null", quantity="none")
<i>Int1d</i>	nrbytes (description="Number of Bytes", quantity="none")
<i>Int2d</i>	LO_S (description="Status of the LO : Locked (=1) / Unlocked (=0)", quantity="none")
<i>Int2d</i>	channels (description="null", quantity="none")
<i>Int2d</i>	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")
<i>String1d</i>	Pol_S (description="Polar used : H/V", quantity="none")
<i>Int1d</i>	rasterColumnNum (description="Raster Column number", quantity="1")
<i>String1d</i>	Unit_ID_S (description="Unit used : QM/FM", quantity="none")
<i>Int2d</i>	cuts (description="null", quantity="none")
<i>String1d</i>	Switch_S (description="Status of the input IF Switch : H/V", quantity="none")
<i>Long1d</i>	hkFlag (description="{HF_AV2_G_SIF1_V=17, HF_AH1_MXBIAS_C=0, HF_AH1_MXMG_C=4, HF_AV2_G_SIF3_V=21, HF_AH1_DPACT_V=10, HF_AV2_G_SIF2_V=19, HF_AH2_G_SIF3_V=20, HF_AH2_G_SIF2_V=18, HF_AH2_G_SIF1_V=16, HF_AH2_G_FIF1_V=12, HF_AH2_G_FIF2_V=14, HF_AV1_MXMG_V=7, HF_AP_SCHS_CT=22, HF_AV1_MXBIAS_V=3, HF_AV1_DPACT_C=27, HL_R_M1_1A_C=28, HF_APR_CH_ROT=8, HF_APR_SCC_S_CT=24, HF_AV2_G_FIF1_V=13, HF_AV2_G_FIF2_V=15, HL_R_M1_7A_C=28, HF_AH1_MXMG_V=6, HF_AR_SCHS_CT=23, HF_APR_S2K_CT=25, HL_R_M1_7B_C=28, HF_AH1_MXBIAS_V=2, HF_AV1_MXBIAS_C=1, HF_AV1_MXMG_C=5, HF_DPR_CH_ROT2=9, HF_AH1_DPACT_C=26, HL_R_M2_3B_C=28, HF_AV1_DPACT_V=11}", quantity="none")
<i>Int2d</i>	LO_F_raw (description="LO Frequency raw values", quantity="MHz")

1.2.3. HIFI Product Level 2 - WBS Spectrum Dataset

<i>product (type="herschel.ia.dataset.Product(HifiSpectrumDataset)", description="WBS Spectrum Dataset")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of channels")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")

StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 42 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 42 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 42 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")

BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 42 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
LongParameter	Pipeline applied (description="Define which pipeline modules have been applied to the data.\u000A bit 0 = not used \u000A bit 1 = Scan count correction \u000A bit 3 = Dark correction \u000A bit 4 = Non Linearity correction \u000A bit 5 = Zero correction \u000A bit 6 = Frequency calibration applied \u000A", quantity="degrees")
BooleanParameter	isMasked (description="Bad Pixels have been flagged", quantity="degrees")
DoubleParameter	resolution (description="Mean resolution from all combs spectra", quantity="MHz")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrumDataset", quantity="MHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")
DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="GHz")
DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="GHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="m2")
StringParameter	temperatureScale (description="Temperature scale in use", quantity="m2")
StringParameter	sideband (description="status: upper or lower side band", quantity="m2")
StringParameter	gainMethod (description="Method used to parametrize the sideband gains coefficients.", quantity="m2")
DoubleParameter	lsbGain (description="Sideband gain level applied in the given lower side band spectrum.", quantity="m2")
DoubleParameter	lsbGain_0 (description="Sideband gain polynomial coefficients 0 applied.", quantity="m2")
DoubleParameter	lsbGain_1 (description="Sideband gain polynomial coefficients 1 applied.", quantity="m2")
DoubleParameter	lsbGain_2 (description="Sideband gain polynomial coefficients 2 applied.", quantity="m2")
DoubleParameter	lsbGain_3 (description="Sideband gain polynomial coefficients 3 applied.", quantity="m2")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="m2")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="m2")
LongParameter	subbandlength_3 (description="Length of subband 3", quantity="m2")
LongParameter	subbandlength_4 (description="Length of subband 4", quantity="m2")

LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="m2")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="m2")
LongParameter	subbandstart_3 (description="Starting channel for subband 3", quantity="m2")
LongParameter	subbandstart_4 (description="Starting channel for subband 4", quantity="m2")
DoubleParameter	resolution_resampled (description="Approximate resolution after resampling.", quantity="MHz")
DoubleParameter	frequencyWidth (description="The spacing of the frequency grids after resampling.", quantity="GHz")
StringParameter	fileName (description="filename for exporting purposes", quantity="GHz")
DoubleParameter	loFreqAvg (description="Average LO frequency Doppler-corrected to freqFrame (SPECSYS)", quantity="GHz")
<i>Columns</i>	
<i>table dataset</i>	(name="0001", description="WBS Spectrum Dataset")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of channels")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")

LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")

LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 42 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 42 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 42 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 42 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
LongParameter	Pipeline applied (description="Define which pipeline modules have been applied to the data.\u000A bit 0 = not used \u000A bit 1 = Scan count correction \u000A bit 3 = Dark correction \u000A bit 4 = Non Linearity correction \u000A bit 5 = Zero correction \u000A bit 6 = Frequency calibration applied \u000A", quantity="degrees")
BooleanParameter	isMasked (description="Bad Pixels have been flagged", quantity="degrees")
DoubleParameter	resolution (description="Mean resolution from all combs spectra", quantity="MHz")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrum-Dataset", quantity="MHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")
DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="GHz")
DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="GHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="m2")
StringParameter	temperatureScale (description="Temperature scale in use", quantity="m2")

StringParameter	sideband (description="status: upper or lower side band", quantity="m2")
StringParameter	gainMethod (description="Method used to parametrize the sideband gains coefficients.", quantity="m2")
DoubleParameter	lsbGain (description="Sideband gain level applied in the given lower side band spectrum.", quantity="m2")
DoubleParameter	lsbGain_0 (description="Sideband gain polynomial coefficients 0 applied.", quantity="m2")
DoubleParameter	lsbGain_1 (description="Sideband gain polynomial coefficients 1 applied.", quantity="m2")
DoubleParameter	lsbGain_2 (description="Sideband gain polynomial coefficients 2 applied.", quantity="m2")
DoubleParameter	lsbGain_3 (description="Sideband gain polynomial coefficients 3 applied.", quantity="m2")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="m2")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="m2")
LongParameter	subbandlength_3 (description="Length of subband 3", quantity="m2")
LongParameter	subbandlength_4 (description="Length of subband 4", quantity="m2")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="m2")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="m2")
LongParameter	subbandstart_3 (description="Starting channel for subband 3", quantity="m2")
LongParameter	subbandstart_4 (description="Starting channel for subband 4", quantity="m2")
DoubleParameter	resolution_resampled (description="Approximate resolution after resampling.", quantity="MHz")
DoubleParameter	frequencyWidth (description="The spacing of the frequency grids after resampling.", quantity="GHz")
DoubleParameter	loFreqAvg (description="Average LO frequency Doppler-corrected to freqFrame (SPECSYS)", quantity="GHz")
<i>Columns</i>	
<i>Double2d</i>	flux_1 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	lsbfrequency_1 (description="Lower sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_1 (description="null", quantity="none")
<i>Int2d</i>	flag_1 (description="null", quantity="none")
<i>Double2d</i>	flux_2 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	lsbfrequency_2 (description="Lower sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_2 (description="null", quantity="none")
<i>Int2d</i>	flag_2 (description="null", quantity="none")
<i>Double2d</i>	flux_3 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	lsbfrequency_3 (description="Lower sideband frequency", quantity="GHz")

<i>Double2d</i>	weight_3 (description="null", quantity="none")
<i>Int2d</i>	flag_3 (description="null", quantity="none")
<i>Double2d</i>	flux_4 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	lsbfrequency_4 (description="Lower sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_4 (description="null", quantity="none")
<i>Int2d</i>	flag_4 (description="null", quantity="none")
<i>Long1d</i>	obsTime (description="Observation Time", quantity="none")
<i>Long1d</i>	packetTime (description="Packetization Time", quantity="none")
<i>Int1d</i>	scancount (description="Integrated Scan Count", quantity="none")
<i>Int1d</i>	integrations (description="Number of Integrations", quantity="none")
<i>Double1d</i>	integrationTime (description="Integration duration in seconds", quantity="s")
<i>Int1d</i>	bbtype (description="Building Block Type", quantity="none")
<i>Double1d</i>	Chopper (description="Actual chopper positions", quantity="none")
<i>Double1d</i>	cmd_chopper (description="Commanded chopper positions", quantity="none")
<i>Double1d</i>	LoFrequency (description="The LO frequency possibly adjusted for Doppler shifts in the data.", quantity="GHz")
<i>Double1d</i>	frequency_monitor (description="LSU Frequency Monitor", quantity="MHz")
<i>Bool1d</i>	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
<i>Int1d</i>	rowflag (description="Dataframe Flag", quantity="none")
<i>Double2d</i>	hot_cold (description="Hot and cold temperatures of the Blackbody Calibrator", quantity="K")
<i>Double1d</i>	MJC_Ver (description="Calibrated mixer junction current, vertical band 1", quantity="mA")
<i>Double1d</i>	MJC_Hor (description="Calibrated mixer junction current, horizontal band 1", quantity="mA")
<i>Double1d</i>	longitude_cmd (description="Longitude (RA in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	latitude_cmd (description="Latitude (Decl in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	longitude (description="Longitude (RA in equatorial coord)", quantity="deg")
<i>Double1d</i>	latitude (description="Latitude (Decl in equatorial coord)", quantity="deg")
<i>Double1d</i>	posAngle (description="Position Angle", quantity="deg")
<i>Double1d</i>	longitudeError (description="Longitude errors", quantity="arcsec")
<i>Double1d</i>	latitudeError (description="Latitude errors", quantity="arcsec")
<i>Double1d</i>	posAngleError (description="Position Angle errors", quantity="arcsec")
<i>Double1d</i>	tsys_median (description="Median of the Tsys array - subbands concatenated.", quantity="none")

<i>Double1d</i>	velocity_hso_1 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	velocity_hso_2 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	velocity_hso_3 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	LoFrequency_measured (description="Local Oscillator Frequency", quantity="GHz")
<i>Int1d</i>	rasterLineNum (description="Raster line number", quantity="1")
<i>Int2d</i>	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")
<i>Int1d</i>	bitshift (description="Bit Shift", quantity="none")
<i>Int1d</i>	buffer (description="Integration Buffer", quantity="none")
<i>Int1d</i>	rasterColumnNum (description="Raster Column number", quantity="1")
<i>Int1d</i>	scanLineNum (description="Scan line number", quantity="1")
<i>Int1d</i>	customMapPointNum (description="Custom map pointing number", quantity="1")
<i>Int1d</i>	IN_ATT (description="null", quantity="none")
<i>Long1d</i>	hkFlag (description="{HF_AV2_G_SIF1_V=17, HF_AH1_MXBIAS_C=0, HF_AH1_MXMG_C=4, HF_AV2_G_SIF3_V=21, HF_AH1_DPACT_V=10, HF_AV2_G_SIF2_V=19, HF_AH2_G_SIF3_V=20, HF_AH2_G_SIF2_V=18, HF_AH2_G_SIF1_V=16, HF_AH2_G_FIF1_V=12, HF_AH2_G_FIF2_V=14, HF_AV1_MXMG_V=7, HF_AP_SCHS_CT=22, HF_AV1_MXBIAS_V=3, HF_AV1_DPACT_C=27, HL_R_M1_1A_C=28, HF_APR_CH_ROT=8, HF_APR_SCC_S_CT=24, HF_AV2_G_FIF1_V=13, HF_AV2_G_FIF2_V=15, HL_R_M1_7A_C=28, HF_AH1_MXMG_V=6, HF_AR_SCHS_CT=23, HF_APR_S2K_CT=25, HL_R_M1_7B_C=28, HF_AH1_MXBIAS_V=2, HF_AV1_MXBIAS_C=1, HF_AV1_MXMG_C=5, HF_DPR_CH_ROT2=9, HF_AH1_DPACT_C=26, HL_R_M2_3B_C=28, HF_AV1_DPACT_V=11}", quantity="none")
<i>Int1d</i>	nrbytes (description="Number of Bytes", quantity="none")
<i>Int2d</i>	badLo (description="bit 0=Bad LO; bit 1=Weak_spur; bit 2=Strong_spur; bit 3=Strong_instability; bit 4=IF_saturation;", quantity="none")
<i>Int2d</i>	Band_ATT (description="null", quantity="none")

1.2.4. HIFI Product Level 2 - WBS Spectrum Dataset

<i>product</i> (type="herschel.ia.dataset.Product(HifiSpectrumDataset), description="WBS Spectrum Dataset")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")

DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of channels")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")

StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 42 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 42 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 42 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 42 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
LongParameter	Pipeline applied (description="Define which pipeline modules have been applied to the data.\u000A bit 0 = not used \u000A bit 1 = Scan count correction \u000A bit 3 = Dark correction \u000A bit 4 = Non Linearity correction \u000A

	bit 5 = Zero correction \u000A bit 6 = Frequency calibration applied \u000A", quantity="degrees")
BooleanParameter	isMasked (description="Bad Pixels have been flagged", quantity="degrees")
DoubleParameter	resolution (description="Mean resolution from all combs spectra", quantity="MHz")
BooleanParameter	hasSubbands (description="Whether it has subbands", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrumDataset", quantity="MHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")
DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="GHz")
DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="GHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="m2")
StringParameter	temperatureScale (description="Temperature scale in use", quantity="m2")
StringParameter	sideband (description="status: upper or lower side band", quantity="m2")
StringParameter	gainMethod (description="Method used to parametrize the sideband gains coefficients.", quantity="m2")
DoubleParameter	usbGain (description="Sideband gain level applied in the given upper side band spectrum.", quantity="m2")
DoubleParameter	usbGain_0 (description="Sideband gain polynomial coefficients 0 applied.", quantity="m2")
DoubleParameter	usbGain_1 (description="Sideband gain polynomial coefficients 1 applied.", quantity="m2")
DoubleParameter	usbGain_2 (description="Sideband gain polynomial coefficients 2 applied.", quantity="m2")
DoubleParameter	usbGain_3 (description="Sideband gain polynomial coefficients 3 applied.", quantity="m2")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="m2")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="m2")
LongParameter	subbandlength_3 (description="Length of subband 3", quantity="m2")
LongParameter	subbandlength_4 (description="Length of subband 4", quantity="m2")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="m2")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="m2")
LongParameter	subbandstart_3 (description="Starting channel for subband 3", quantity="m2")
LongParameter	subbandstart_4 (description="Starting channel for subband 4", quantity="m2")
DoubleParameter	resolution_resampled (description="Approximate resolution after resampling.", quantity="MHz")

DoubleParameter	frequencyWidth (description="The spacing of the frequency grids after resampling.", quantity="GHz")
StringParameter	fileName (description="filename for exporting purposes", quantity="GHz")
DoubleParameter	loFreqAvg (description="Average LO frequency Doppler-corrected to freqFrame (SPECSYS)", quantity="GHz")
<i>Columns</i>	
<i>table dataset</i>	(name="0001", description="WBS Spectrum Dataset")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of channels")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")

StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 42 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 42 (100%) spectra", quantity="degrees")

BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 42 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 42 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
LongParameter	Pipeline applied (description="Define which pipeline modules have been applied to the data.\u000A bit 0 = not used \u000A bit 1 = Scan count correction \u000A bit 3 = Dark correction \u000A bit 4 = Non Linearity correction \u000A bit 5 = Zero correction \u000A bit 6 = Frequency calibration applied \u000A", quantity="degrees")
BooleanParameter	isMasked (description="Bad Pixels have been flagged", quantity="degrees")
DoubleParameter	resolution (description="Mean resolution from all combs spectra", quantity="MHz")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrum-Dataset", quantity="MHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")
DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="GHz")
DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="GHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="m2")
StringParameter	temperatureScale (description="Temperature scale in use", quantity="m2")
StringParameter	sideband (description="status: upper or lower side band", quantity="m2")
StringParameter	gainMethod (description="Method used to parametrize the sideband gains coefficients.", quantity="m2")
DoubleParameter	usbGain (description="Sideband gain level applied in the given upper side band spectrum.", quantity="m2")
DoubleParameter	usbGain_0 (description="Sideband gain polynomial coefficients 0 applied.", quantity="m2")

DoubleParameter	usbGain_1 (description="Sideband gain polynomial coefficients 1 applied.", quantity="m2")
DoubleParameter	usbGain_2 (description="Sideband gain polynomial coefficients 2 applied.", quantity="m2")
DoubleParameter	usbGain_3 (description="Sideband gain polynomial coefficients 3 applied.", quantity="m2")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="m2")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="m2")
LongParameter	subbandlength_3 (description="Length of subband 3", quantity="m2")
LongParameter	subbandlength_4 (description="Length of subband 4", quantity="m2")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="m2")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="m2")
LongParameter	subbandstart_3 (description="Starting channel for subband 3", quantity="m2")
LongParameter	subbandstart_4 (description="Starting channel for subband 4", quantity="m2")
DoubleParameter	resolution_resampled (description="Approximate resolution after resampling.", quantity="MHz")
DoubleParameter	frequencyWidth (description="The spacing of the frequency grids after resampling.", quantity="GHz")
DoubleParameter	loFreqAvg (description="Average LO frequency Doppler-corrected to freqFrame (SPECSYS)", quantity="GHz")
<i>Columns</i>	
<i>Double2d</i>	flux_1 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	usbfrequency_1 (description="Upper sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_1 (description="null", quantity="none")
<i>Int2d</i>	flag_1 (description="null", quantity="none")
<i>Double2d</i>	flux_2 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	usbfrequency_2 (description="Upper sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_2 (description="null", quantity="none")
<i>Int2d</i>	flag_2 (description="null", quantity="none")
<i>Double2d</i>	flux_3 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	usbfrequency_3 (description="Upper sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_3 (description="null", quantity="none")
<i>Int2d</i>	flag_3 (description="null", quantity="none")
<i>Double2d</i>	flux_4 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	usbfrequency_4 (description="Upper sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_4 (description="null", quantity="none")
<i>Int2d</i>	flag_4 (description="null", quantity="none")
<i>Long1d</i>	obsTime (description="Observation Time", quantity="none")

<i>Long1d</i>	packetTime (description="Packetization Time", quantity="none")
<i>Int1d</i>	scancount (description="Integrated Scan Count", quantity="none")
<i>Int1d</i>	integrations (description="Number of Integrations", quantity="none")
<i>Double1d</i>	integrationTime (description="Integration duration in seconds", quantity="s")
<i>Int1d</i>	bbtype (description="Building Block Type", quantity="none")
<i>Double1d</i>	Chopper (description="Actual chopper positions", quantity="none")
<i>Double1d</i>	cmd_chopper (description="Commanded chopper positions", quantity="none")
<i>Double1d</i>	LoFrequency (description="The LO frequency possibly adjusted for Doppler shifts in the data.", quantity="GHz")
<i>Double1d</i>	frequency_monitor (description="LSU Frequency Monitor", quantity="MHz")
<i>Bool1d</i>	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
<i>Int1d</i>	rowflag (description="Dataframe Flag", quantity="none")
<i>Double2d</i>	hot_cold (description="Hot and cold temperatures of the Blackbody Calibrator", quantity="K")
<i>Double1d</i>	MJC_Ver (description="Calibrated mixer junction current, vertical band 1", quantity="mA")
<i>Double1d</i>	MJC_Hor (description="Calibrated mixer junction current, horizontal band 1", quantity="mA")
<i>Double1d</i>	longitude_cmd (description="longitude (RA in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	latitude_cmd (description="latitude (Decl in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	longitude (description="longitude (RA in equatorial coord)", quantity="deg")
<i>Double1d</i>	latitude (description="latitude (Decl in equatorial coord)", quantity="deg")
<i>Double1d</i>	posAngle (description="Position Angle", quantity="deg")
<i>Double1d</i>	longitudeError (description="longitude errors", quantity="arcsec")
<i>Double1d</i>	latitudeError (description="latitude errors", quantity="arcsec")
<i>Double1d</i>	posAngleError (description="Position Angle errors", quantity="arcsec")
<i>Double1d</i>	tsys_median (description="Median of the Tsys array - subbands concatenated.", quantity="none")
<i>Double1d</i>	velocity_hso_1 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	velocity_hso_2 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	velocity_hso_3 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	LoFrequency_measured (description="Local Oscillator Frequency", quantity="GHz")
<i>Int1d</i>	rasterLineNum (description="Raster line number", quantity="1")

<i>Int2d</i>	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")
<i>Int1d</i>	bitshift (description="Bit Shift", quantity="none")
<i>Int1d</i>	buffer (description="Integration Buffer", quantity="none")
<i>Int1d</i>	rasterColumnNum (description="Raster Column number", quantity="1")
<i>Int1d</i>	scanLineNum (description="Scan line number", quantity="1")
<i>Int1d</i>	customMapPointNum (description="Custom map pointing number", quantity="1")
<i>Int1d</i>	IN_ATT (description="null", quantity="none")
<i>Long1d</i>	hkFlag (description="{HF_AV2_G_SIF1_V=17, HF_AH1_MXBIAS_C=0, HF_AH1_MXMG_C=4, HF_AV2_G_SIF3_V=21, HF_AH1_DPACT_V=10, HF_AV2_G_SIF2_V=19, HF_AH2_G_SIF3_V=20, HF_AH2_G_SIF2_V=18, HF_AH2_G_SIF1_V=16, HF_AH2_G_FIF1_V=12, HF_AH2_G_FIF2_V=14, HF_AV1_MXMG_V=7, HF_AP_SCHS_CT=22, HF_AV1_DPACT_C=27, HL_R_M1_1A_C=28, HF_APR_CH_ROT=8, HF_APR_SCC_S_CT=24, HF_AV2_G_FIF1_V=13, HF_AV2_G_FIF2_V=15, HL_R_M1_7A_C=28, HF_AH1_MXMG_V=6, HF_AR_SCHS_CT=23, HF_APR_S2K_CT=25, HL_R_M1_7B_C=28, HF_AH1_MXBIAS_V=2, HF_AV1_MXBIAS_C=1, HF_AV1_MXMG_C=5, HF_DPR_CH_ROT2=9, HF_AH1_DPACT_C=26, HL_R_M2_3B_C=28, HF_AV1_DPACT_V=11}", quantity="none")
<i>Int1d</i>	nrbytes (description="Number of Bytes", quantity="none")
<i>Int2d</i>	badLo (description="bit 0=Bad LO; bit 1=Weak spur; bit 2=Strong spur; bit 3=Strong instability; bit 4=IF saturation;", quantity="none")
<i>Int2d</i>	Band_ATT (description="null", quantity="none")

1.2.5. HIFI Product Level 2 - WBS Spectrum Dataset

<i>product (type="herschel.ia.dataset.Product(HifiSpectrumDataset)", description="WBS Spectrum Dataset")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")

LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of channels")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")

StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 26 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 26 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 26 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 26 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
StringParameter	badLoBand_2 (description="bad Lo in band", quantity="degrees")
LongParameter	Pipeline applied (description="Define which pipeline modules have been applied to the data.\u000A bit 0 = not used \u000A bit 1 = Scan count correction \u000A bit 3 = Dark correction \u000A bit 4 = Non Linearity correction \u000A bit 5 = Zero correction \u000A bit 6 = Frequency calibration applied \u000A", quantity="degrees")
BooleanParameter	isMasked (description="Bad Pixels have been flagged", quantity="degrees")
DoubleParameter	resolution (description="Mean resolution from all combs spectra", quantity="MHz")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrumDataset", quantity="MHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")
DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="GHz")

DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="GHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="m2")
StringParameter	temperatureScale (description="Temperature scale in use", quantity="m2")
StringParameter	sideband (description="status: upper or lower side band", quantity="m2")
StringParameter	gainMethod (description="Method used to parametrize the sideband gains coefficients.", quantity="m2")
DoubleParameter	lsbGain (description="Sideband gain level applied in the given lower side band spectrum.", quantity="m2")
DoubleParameter	lsbGain_0 (description="Sideband gain polynomial coefficients 0 applied.", quantity="m2")
DoubleParameter	lsbGain_1 (description="Sideband gain polynomial coefficients 1 applied.", quantity="m2")
DoubleParameter	lsbGain_2 (description="Sideband gain polynomial coefficients 2 applied.", quantity="m2")
DoubleParameter	lsbGain_3 (description="Sideband gain polynomial coefficients 3 applied.", quantity="m2")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="m2")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="m2")
LongParameter	subbandlength_3 (description="Length of subband 3", quantity="m2")
LongParameter	subbandlength_4 (description="Length of subband 4", quantity="m2")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="m2")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="m2")
LongParameter	subbandstart_3 (description="Starting channel for subband 3", quantity="m2")
LongParameter	subbandstart_4 (description="Starting channel for subband 4", quantity="m2")
DoubleParameter	resolution_resampled (description="Approximate resolution after resampling.", quantity="MHz")
DoubleParameter	frequencyWidth (description="The spacing of the frequency grids after resampling.", quantity="GHz")
StringParameter	fileName (description="filename for exporting purposes", quantity="GHz")
<i>Columns</i>	
<i>table dataset</i>	(name="0001", description="WBS Spectrum Dataset")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")

DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of channels")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")

StringParameter	level (description="Pipeline level", quantity="deg")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 26 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 26 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 26 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 26 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
StringParameter	badLoBand_2 (description="bad Lo in band", quantity="degrees")
LongParameter	Pipeline applied (description="Define which pipeline modules have been applied to the data.\u000A bit 0 = not used \u000A bit 1 = Scan count correction \u000A bit 3 = Dark correction \u000A bit 4 = Non Linearity correction \u000A bit 5 = Zero correction \u000A bit 6 = Frequency calibration applied \u000A", quantity="degrees")
BooleanParameter	isMasked (description="Bad Pixels have been flagged", quantity="degrees")
DoubleParameter	resolution (description="Mean resolution from all combs spectra", quantity="MHz")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="MHz")

StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrum-Dataset", quantity="MHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")
DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="GHz")
DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="GHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="m2")
StringParameter	temperatureScale (description="Temperature scale in use", quantity="m2")
StringParameter	sideband (description="status: upper or lower side band", quantity="m2")
StringParameter	gainMethod (description="Method used to parametrize the sideband gains coefficients.", quantity="m2")
DoubleParameter	lsbGain (description="Sideband gain level applied in the given lower side band spectrum.", quantity="m2")
DoubleParameter	lsbGain_0 (description="Sideband gain polynomial coefficients 0 applied.", quantity="m2")
DoubleParameter	lsbGain_1 (description="Sideband gain polynomial coefficients 1 applied.", quantity="m2")
DoubleParameter	lsbGain_2 (description="Sideband gain polynomial coefficients 2 applied.", quantity="m2")
DoubleParameter	lsbGain_3 (description="Sideband gain polynomial coefficients 3 applied.", quantity="m2")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="m2")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="m2")
LongParameter	subbandlength_3 (description="Length of subband 3", quantity="m2")
LongParameter	subbandlength_4 (description="Length of subband 4", quantity="m2")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="m2")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="m2")
LongParameter	subbandstart_3 (description="Starting channel for subband 3", quantity="m2")
LongParameter	subbandstart_4 (description="Starting channel for subband 4", quantity="m2")
DoubleParameter	resolution_resampled (description="Approximate resolution after re-sampling.", quantity="MHz")

DoubleParameter	frequencyWidth (description="The spacing of the frequency grids after resampling.", quantity="GHz")
<i>Columns</i>	
<i>Double2d</i>	flux_1 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	lsbfrequency_1 (description="Lower sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_1 (description="null", quantity="none")
<i>Int2d</i>	flag_1 (description="null", quantity="none")
<i>Double2d</i>	flux_2 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	lsbfrequency_2 (description="Lower sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_2 (description="null", quantity="none")
<i>Int2d</i>	flag_2 (description="null", quantity="none")
<i>Double2d</i>	flux_3 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	lsbfrequency_3 (description="Lower sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_3 (description="null", quantity="none")
<i>Int2d</i>	flag_3 (description="null", quantity="none")
<i>Double2d</i>	flux_4 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	lsbfrequency_4 (description="Lower sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_4 (description="null", quantity="none")
<i>Int2d</i>	flag_4 (description="null", quantity="none")
<i>Long1d</i>	obsTime (description="Observation Time", quantity="none")
<i>Long1d</i>	packetTime (description="Packetization Time", quantity="none")
<i>Int1d</i>	scancount (description="Integrated Scan Count", quantity="none")
<i>Int1d</i>	integrations (description="Number of Integrations", quantity="none")
<i>Double1d</i>	integrationTime (description="Integration duration in seconds", quantity="s")
<i>Int1d</i>	bbtype (description="Building Block Type", quantity="none")
<i>Double1d</i>	Chopper (description="Actual chopper positions", quantity="none")
<i>Double1d</i>	cmd_chopper (description="Commanded chopper positions", quantity="none")
<i>Double1d</i>	LoFrequency (description="The LO frequency possibly adjusted for Doppler shifts in the data.", quantity="GHz")
<i>Double1d</i>	frequency_monitor (description="LSU Frequency Monitor", quantity="MHz")
<i>Bool1d</i>	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
<i>Int1d</i>	rowflag (description="null", quantity="none")
<i>Double2d</i>	hot_cold (description="Hot and cold temperatures of the Blackbody Calibrator", quantity="K")
<i>Double1d</i>	MJC_Ver (description="Calibrated mixer junction current, vertical band 4", quantity="mA")

<i>Double1d</i>	MJC_Hor (description="Calibrated mixer junction current, horizontal band 4", quantity="mA")
<i>Double1d</i>	longitude_cmd (description="longitude (RA in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	latitude_cmd (description="latitude (Decl in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	longitude (description="longitude (RA in equatorial coord)", quantity="deg")
<i>Double1d</i>	latitude (description="latitude (Decl in equatorial coord)", quantity="deg")
<i>Double1d</i>	posAngle (description="Position Angle", quantity="deg")
<i>Double1d</i>	longitudeError (description="longitude errors", quantity="arcsec")
<i>Double1d</i>	latitudeError (description="latitude errors", quantity="arcsec")
<i>Double1d</i>	posAngleError (description="Position Angle errors", quantity="arcsec")
<i>Double1d</i>	tsys_median (description="Median of the Tsys array - subbands concatenated.", quantity="none")
<i>Double1d</i>	velocity_hso_1 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	velocity_hso_2 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	velocity_hso_3 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	LoFrequency_measured (description="Local Oscillator Frequency", quantity="GHz")
<i>Int1d</i>	rasterLineNum (description="Raster line number", quantity="1")
<i>Int2d</i>	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")
<i>Int1d</i>	bitshift (description="Bit Shift", quantity="none")
<i>Int1d</i>	buffer (description="Integration Buffer", quantity="none")
<i>Int1d</i>	rasterColumnNum (description="Raster Column number", quantity="1")
<i>Int1d</i>	scanLineNum (description="Scan line number", quantity="1")
<i>Int1d</i>	customMapPointNum (description="Custom map pointing number", quantity="1")
<i>Int1d</i>	IN_ATT (description="null", quantity="none")
<i>Long1d</i>	hkFlag (description="{HF_AV2_G_SIF1_V=17, HF_AH1_MXBIAS_C=0, HF_AV2_G_SIF3_V=21, HF_AH1_DPACT_V=10, HF_AV2_G_SIF2_V=19, HF_AH2_G_SIF3_V=20, HF_AH2_G_SIF2_V=18, HF_AH2_G_SIF1_V=16, HF_AH2_G_FIF1_V=12, HF_AH2_G_FIF2_V=14, HF_AV1_MXMG_V=7, HF_AP_SCHS_CT=22, HF_AV1_MXBIAS_V=3, HF_AV1_DPACT_C=27, HL_R_M1_1A_C=28, HF_APR_CH_ROT=8, HF_APR_SCCS_CT=24, HF_AV2_G_FIF1_V=13, HF_AV2_G_FIF2_V=15, HL_R_M1_7A_C=28, HF_AH1_MXMG_V=6, HF_AR_SCHS_CT=23, HF_APR_S2K_CT=25, HL_R_M1_7B_C=28, HF_AH1_MXBIAS_V=2, HF_AV1_MXBIAS_C=1,")

				HF_AV1_MXMG_C=5, HF_DPR_CH_ROT2=9, HF_AH1_D-PACT_C=26, HL_R_M2_3B_C=28, HF_AV1_DPACT_V=11}", quantity="none")
			<i>Int1d</i>	nrbytes (description="Number of Bytes", quantity="none")
			<i>Int2d</i>	badLo (description="bit 0=Bad LO; bit 1=Weak_spur; bit 2=Strong_spur; bit 3=Strong_instability; bit 4=IF_saturation;", quantity="none")
			<i>Int2d</i>	Band_ATT (description="null", quantity="none")

1.2.6. HIFI Product Level 2 - WBS Spectrum Dataset

<i>product (type="herschel.ia.dataset.Product(HifiSpectrumDataset)", description="WBS Spectrum Dataset")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of channels")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")

StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 26 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 26 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")

BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 26 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 26 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
StringParameter	badLoBand_2 (description="bad Lo in band", quantity="degrees")
LongParameter	Pipeline applied (description="Define which pipeline modules have been applied to the data.\u000A bit 0 = not used \u000A bit 1 = Scan count correction \u000A bit 3 = Dark correction \u000A bit 4 = Non Linearity correction \u000A bit 5 = Zero correction \u000A bit 6 = Frequency calibration applied \u000A", quantity="degrees")
BooleanParameter	isMasked (description="Bad Pixels have been flagged", quantity="degrees")
DoubleParameter	resolution (description="Mean resolution from all combs spectra", quantity="MHz")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrumDataset", quantity="MHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")
DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="GHz")
DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="GHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="m2")
StringParameter	temperatureScale (description="Temperature scale in use", quantity="m2")
StringParameter	sideband (description="status: upper or lower side band", quantity="m2")
StringParameter	gainMethod (description="Method used to parametrize the sideband gains coefficients.", quantity="m2")
DoubleParameter	usbGain (description="Sideband gain level applied in the given upper side band spectrum.", quantity="m2")
DoubleParameter	usbGain_0 (description="Sideband gain polynomial coefficients 0 applied.", quantity="m2")
DoubleParameter	usbGain_1 (description="Sideband gain polynomial coefficients 1 applied.", quantity="m2")
DoubleParameter	usbGain_2 (description="Sideband gain polynomial coefficients 2 applied.", quantity="m2")
DoubleParameter	usbGain_3 (description="Sideband gain polynomial coefficients 3 applied.", quantity="m2")

LongParameter	subbandlength_1 (description="Length of subband 1", quantity="m2")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="m2")
LongParameter	subbandlength_3 (description="Length of subband 3", quantity="m2")
LongParameter	subbandlength_4 (description="Length of subband 4", quantity="m2")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="m2")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="m2")
LongParameter	subbandstart_3 (description="Starting channel for subband 3", quantity="m2")
LongParameter	subbandstart_4 (description="Starting channel for subband 4", quantity="m2")
DoubleParameter	resolution_resampled (description="Approximate resolution after resampling.", quantity="MHz")
DoubleParameter	frequencyWidth (description="The spacing of the frequency grids after resampling.", quantity="GHz")
StringParameter	fileName (description="filename for exporting purposes", quantity="GHz")
<i>Columns</i>	
<i>table dataset</i>	(name="0001", description="WBS Spectrum Dataset")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of channels")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")

StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 26 (100%) spectra", quantity="degrees")

BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 26 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 26 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 26 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
StringParameter	badLoBand_2 (description="bad Lo in band", quantity="degrees")
LongParameter	Pipeline applied (description="Define which pipeline modules have been applied to the data.\u000A bit 0 = not used \u000A bit 1 = Scan count correction \u000A bit 3 = Dark correction \u000A bit 4 = Non Linearity correction \u000A bit 5 = Zero correction \u000A bit 6 = Frequency calibration applied \u000A", quantity="degrees")
BooleanParameter	isMasked (description="Bad Pixels have been flagged", quantity="degrees")
DoubleParameter	resolution (description="Mean resolution from all combs spectra", quantity="MHz")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrum-Dataset", quantity="MHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")
DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="GHz")
DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="GHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="m2")
StringParameter	temperatureScale (description="Temperature scale in use", quantity="m2")
StringParameter	sideband (description="status: upper or lower side band", quantity="m2")

StringParameter	gainMethod (description="Method used to parametrize the sideband gains coefficients.", quantity="m2")
DoubleParameter	usbGain (description="Sideband gain level applied in the given upper side band spectrum.", quantity="m2")
DoubleParameter	usbGain_0 (description="Sideband gain polynomial coefficients 0 applied.", quantity="m2")
DoubleParameter	usbGain_1 (description="Sideband gain polynomial coefficients 1 applied.", quantity="m2")
DoubleParameter	usbGain_2 (description="Sideband gain polynomial coefficients 2 applied.", quantity="m2")
DoubleParameter	usbGain_3 (description="Sideband gain polynomial coefficients 3 applied.", quantity="m2")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="m2")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="m2")
LongParameter	subbandlength_3 (description="Length of subband 3", quantity="m2")
LongParameter	subbandlength_4 (description="Length of subband 4", quantity="m2")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="m2")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="m2")
LongParameter	subbandstart_3 (description="Starting channel for subband 3", quantity="m2")
LongParameter	subbandstart_4 (description="Starting channel for subband 4", quantity="m2")
DoubleParameter	resolution_resampled (description="Approximate resolution after resampling.", quantity="MHz")
DoubleParameter	frequencyWidth (description="The spacing of the frequency grids after resampling.", quantity="GHz")
<i>Columns</i>	
<i>Double2d</i>	flux_1 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	usbfrequency_1 (description="Upper sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_1 (description="null", quantity="none")
<i>Int2d</i>	flag_1 (description="null", quantity="none")
<i>Double2d</i>	flux_2 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	usbfrequency_2 (description="Upper sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_2 (description="null", quantity="none")
<i>Int2d</i>	flag_2 (description="null", quantity="none")
<i>Double2d</i>	flux_3 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	usbfrequency_3 (description="Upper sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_3 (description="null", quantity="none")
<i>Int2d</i>	flag_3 (description="null", quantity="none")
<i>Double2d</i>	flux_4 (description="Antenna Temperature", quantity="K")

<i>Double2d</i>	usbfrequency_4 (description="Upper sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_4 (description="null", quantity="none")
<i>Int2d</i>	flag_4 (description="null", quantity="none")
<i>Long1d</i>	obsTime (description="Observation Time", quantity="none")
<i>Long1d</i>	packetTime (description="Packetization Time", quantity="none")
<i>Int1d</i>	scancount (description="Integrated Scan Count", quantity="none")
<i>Int1d</i>	integrations (description="Number of Integrations", quantity="none")
<i>Double1d</i>	integrationTime (description="Integration duration in seconds", quantity="s")
<i>Int1d</i>	bbtype (description="Building Block Type", quantity="none")
<i>Double1d</i>	Chopper (description="Actual chopper positions", quantity="none")
<i>Double1d</i>	cmd_chopper (description="Commanded chopper positions", quantity="none")
<i>Double1d</i>	LoFrequency (description="The LO frequency possibly adjusted for Doppler shifts in the data.", quantity="GHz")
<i>Double1d</i>	frequency_monitor (description="LSU Frequency Monitor", quantity="MHz")
<i>Bool1d</i>	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
<i>Int1d</i>	rowflag (description="null", quantity="none")
<i>Double2d</i>	hot_cold (description="Hot and cold temperatures of the Blackbody Calibrator", quantity="K")
<i>Double1d</i>	MJC_Ver (description="Calibrated mixer junction current, vertical band 4", quantity="mA")
<i>Double1d</i>	MJC_Hor (description="Calibrated mixer junction current, horizontal band 4", quantity="mA")
<i>Double1d</i>	longitude_cmd (description="longitude (RA in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	latitude_cmd (description="latitude (Decl in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	longitude (description="longitude (RA in equatorial coord)", quantity="deg")
<i>Double1d</i>	latitude (description="latitude (Decl in equatorial coord)", quantity="deg")
<i>Double1d</i>	posAngle (description="Position Angle", quantity="deg")
<i>Double1d</i>	longitudeError (description="longitude errors", quantity="arcsec")
<i>Double1d</i>	latitudeError (description="latitude errors", quantity="arcsec")
<i>Double1d</i>	posAngleError (description="Position Angle errors", quantity="arcsec")
<i>Double1d</i>	tsys_median (description="Median of the Tsys array - subbands concatenated.", quantity="none")
<i>Double1d</i>	velocity_hso_1 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	velocity_hso_2 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")

<i>Double1d</i>	velocity_hso_3 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	LoFrequency_measured (description="Local Oscillator Frequency", quantity="GHz")
<i>Int1d</i>	rasterLineNum (description="Raster line number", quantity="1")
<i>Int2d</i>	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")
<i>Int1d</i>	bitshift (description="Bit Shift", quantity="none")
<i>Int1d</i>	buffer (description="Integration Buffer", quantity="none")
<i>Int1d</i>	rasterColumnNum (description="Raster Column number", quantity="1")
<i>Int1d</i>	scanLineNum (description="Scan line number", quantity="1")
<i>Int1d</i>	customMapPointNum (description="Custom map pointing number", quantity="1")
<i>Int1d</i>	IN_ATT (description="null", quantity="none")
<i>Long1d</i>	hkFlag (description="{HF_AV2_G_SIF1_V=17, HF_AH1_MXBIAS_C=0, HF_AH1_MXMG_C=4, HF_AV2_G_SIF3_V=21, HF_AH1_DPACT_V=10, HF_AV2_G_SIF2_V=19, HF_AH2_G_SIF3_V=20, HF_AH2_G_SIF2_V=18, HF_AH2_G_SIF1_V=16, HF_AH2_G_FIF1_V=12, HF_AH2_G_FIF2_V=14, HF_AV1_MXMG_V=7, HF_AP_SCHS_CT=22, HF_AV1_MXBIAS_V=3, HF_AV1_DPACT_C=27, HL_R_M1_1A_C=28, HF_APR_CH_ROT=8, HF_APR_SCCS_CT=24, HF_AV2_G_FIF1_V=13, HF_AV2_G_FIF2_V=15, HL_R_M1_7A_C=28, HF_AH1_MXMG_V=6, HF_AR_SCHS_CT=23, HF_APR_S2K_CT=25, HL_R_M1_7B_C=28, HF_AH1_MXBIAS_V=2, HF_AV1_MXBIAS_C=1, HF_AV1_MXMG_C=5, HF_DPR_CH_ROT2=9, HF_AH1_DPACT_C=26, HL_R_M2_3B_C=28, HF_AV1_DPACT_V=11}", quantity="none")
<i>Int1d</i>	nrbytes (description="Number of Bytes", quantity="none")
<i>Int2d</i>	badLo (description="bit 0=Bad LO; bit 1=Weak_spur; bit 2=Strong_spur; bit 3=Strong_instability; bit 4=iF_saturation;", quantity="none")
<i>Int2d</i>	Band_ATT (description="null", quantity="none")

This section contains the following product tables:

- HRS and WBS spectrum datasets that are contained in level 2.5 single point observations.
- The WBS-H and WBS-V products of the doDeconvolution task for a spectral scan observation. This is one of the products contained in the myDecon context.
- RegridDED cubes of all the modes for mapping observations.

For more information on these products see [Section 3.1.4](#) in *Product Definition Document*.

1.3. HIFI Level 2.5 products

1.3.1. HIFI Product Level 2.5 - HRS Spectrum Dataset

<i>product (type="herschel.ia.dataset.Product(HifiSpectrumDataset)", description="HRS Spectrum Dataset")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of channels")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")

StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
LongParameter	loadInterval (description="Load period in seconds", quantity="s")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	pattAngle (description="Spectral map rotation angle", quantity="degrees")
DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")
DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
LongParameter	n_cycles (description="Number of cycle in the map", quantity="degrees")
LongParameter	n_linesperscan (description="Number of lines per scan", quantity="degrees")
LongParameter	superSampling (description="Supersampling factor in the map", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")

LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
BooleanParameter	Valid (description="HRS spectrum contains at least one subband", quantity="degrees")
LongParameter	subbands (description="Number of subbands", quantity="degrees")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="degrees")
StringParameter	wavename (description="Actual name of the WaveColumn", quantity="degrees")
DoubleParameter	channelSpacing (description="Delta of frequency in MHz between 2 points of a HRS spectrum", quantity="MHz")
DoubleParameter	resolution (description="HRS resolution when a Hanning windowing is used, i.e. the channelSpacing * 2", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrumDataset", quantity="MHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")
DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="GHz")
DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="GHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="m2")
StringParameter	temperatureScale (description="Temperature scale in use", quantity="m2")
StringParameter	sideband (description="status: upper or lower side band", quantity="m2")

StringParameter	gainMethod (description="Method used to parametrize the sideband gains coefficients.", quantity="m2")
DoubleParameter	lsbGain (description="Sideband gain level applied in the given lower side band spectrum.", quantity="m2")
DoubleParameter	lsbGain_0 (description="Sideband gain polynomial coefficients 0 applied.", quantity="m2")
DoubleParameter	lsbGain_1 (description="Sideband gain polynomial coefficients 1 applied.", quantity="m2")
DoubleParameter	lsbGain_2 (description="Sideband gain polynomial coefficients 2 applied.", quantity="m2")
DoubleParameter	lsbGain_3 (description="Sideband gain polynomial coefficients 3 applied.", quantity="m2")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="m2")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="m2")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="m2")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="m2")
DoubleParameter	resolution_resampled (description="Approximate resolution after resampling.", quantity="MHz")
DoubleParameter	frequencyWidth (description="The spacing of the frequency grids after resampling.", quantity="GHz")
DoubleParameter	hpbwAssumed (description="HPBW assumed by doGridding, typically unequal to physical HPBW (metadatum hpbw)", quantity="arcsec")
LongParameter	bbnumber (description="Building Block Number", quantity="arcsec")
DoubleParameter	loFreqAvg (description="Average LO frequency Doppler-corrected to freqFrame (SPECSYS)", quantity="GHz")
StringParameter	fileName (description="filename for exporting purposes", quantity="GHz")
BooleanParameter	selfComputedMapSize (description="The Map grid pixel size is approximated: MetaData doesn't contains 'mapReadoutSep'. MetaData doesn't contains 'mapLineStep'.", quantity="GHz")
DoubleParameter	scanRate (description="Line scan rate of the telescope", quantity="arcsec s-1")
<i>Columns</i>	
<i>table dataset</i>	(name="0001", description="HRS Spectrum Dataset")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")

LongParameter	channels (description="Number of channels")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")

LongParameter	loadInterval (description="Load period in seconds", quantity="s")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	pattAngle (description="Spectral map rotation angle", quantity="degrees")
DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")
DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
LongParameter	n_cycles (description="Number of cycle in the map", quantity="degrees")
LongParameter	n_linesperscan (description="Number of lines per scan", quantity="degrees")
LongParameter	superSampling (description="Supersampling factor in the map", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 24 (100%) spectra", quantity="degrees")

BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
BooleanParameter	Valid (description="HRS spectrum contains at least one subband", quantity="degrees")
LongParameter	subbands (description="Number of subbands", quantity="degrees")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="degrees")
StringParameter	wavename (description="Actual name of the WaveColumn", quantity="degrees")
DoubleParameter	channelSpacing (description="Delta of frequency in MHz between 2 points of a HRS spectrum", quantity="MHz")
DoubleParameter	resolution (description="HRS resolution when a Hanning windowing is used, i.e. the channelSpacing * 2", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrum-Dataset", quantity="MHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")
DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="GHz")
DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="GHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="m2")
StringParameter	temperatureScale (description="Temperature scale in use", quantity="m2")
StringParameter	sideband (description="status: upper or lower side band", quantity="m2")
StringParameter	gainMethod (description="Method used to parametrize the sideband gains coefficients.", quantity="m2")
DoubleParameter	lsbGain (description="Sideband gain level applied in the given lower side band spectrum.", quantity="m2")
DoubleParameter	lsbGain_0 (description="Sideband gain polynomial coefficients 0 applied.", quantity="m2")
DoubleParameter	lsbGain_1 (description="Sideband gain polynomial coefficients 1 applied.", quantity="m2")
DoubleParameter	lsbGain_2 (description="Sideband gain polynomial coefficients 2 applied.", quantity="m2")
DoubleParameter	lsbGain_3 (description="Sideband gain polynomial coefficients 3 applied.", quantity="m2")

DoubleParameter	resolution_resampled (description="Approximate resolution after re-sampling.", quantity="MHz")
DoubleParameter	frequencyWidth (description="The spacing of the frequency grids after resampling.", quantity="GHz")
DoubleParameter	hpbwAssumed (description="HPBW assumed by doGridding, typically unequal to physical HPBW (metadatum hpbw)", quantity="arcsec")
LongParameter	bbnumber (description="Building Block Number", quantity="arcsec")
DoubleParameter	loFreqAvg (description="Average LO frequency Doppler-corrected to freqFrame (SPECSYS)", quantity="GHz")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="GHz")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="GHz")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="GHz")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="GHz")
<i>Columns</i>	
<i>Double2d</i>	flux_1 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	lsbfrequency_1 (description="Lower sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_1 (description="null", quantity="none")
<i>Int2d</i>	flag_1 (description="null", quantity="none")
<i>Double2d</i>	flux_2 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	lsbfrequency_2 (description="Lower sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_2 (description="null", quantity="none")
<i>Int2d</i>	flag_2 (description="null", quantity="none")
<i>Int1d</i>	rasterLineNum (description="Raster line number", quantity="1")
<i>Double1d</i>	cmd_chopper (description="Commanded chopper positions", quantity="none")
<i>Double1d</i>	posAngle (description="Position Angle", quantity="deg")
<i>Double1d</i>	ACS_5P_V (description="ACS voltage for +5V", quantity="V")
<i>Int2d</i>	colorIndex (description="null", quantity="none")
<i>Int1d</i>	nodCycleNum (description="Switching/nodding cycle number", quantity="1")
<i>Int1d</i>	bitshift (description="Bit Shift", quantity="none")
<i>Int2d</i>	type (description="null", quantity="none")
<i>Int2d</i>	resolution (description="null", quantity="none")
<i>Bool2d</i>	blockselection (description="Block Selection", quantity="none")
<i>Double1d</i>	ACS_18P_V (description="ACS voltage for +18V", quantity="V")
<i>Double2d</i>	IF_T (description="IF Temperature values", quantity="degC")
<i>String1d</i>	Buffer_S (description="Buffer for ACS integration : BufferA/BufferB", quantity="none")
<i>Double1d</i>	longitudeError (description="longitude errors", quantity="arcsec")

<i>Double1d</i>	ACS_8P_V (description="ACS voltage for +8V", quantity="V")
<i>Int1d</i>	buffer (description="Integration Buffer", quantity="none")
<i>Double1d</i>	IF_5M_V (description="IF voltage for -5V", quantity="V")
<i>Double1d</i>	longitude (description="longitude (RA in equatorial coord)", quantity="deg")
<i>Int1d</i>	sequenceNumber (description="Integration Sequence Number", quantity="none")
<i>Double1d</i>	frequency_monitor (description="LSU Frequency Monitor", quantity="MHz")
<i>Double2d</i>	Attenuators (description="IRM attenuator values : 0-15.5 dB", quantity="dB")
<i>Int1d</i>	scanLineNum (description="Scan line number", quantity="1")
<i>Double1d</i>	DCDC_1P1_C (description="DCDC current value for +1.1V", quantity="A")
<i>Double1d</i>	ACS_Dig_3P3_V (description="ACS voltage for +3.3V (digital)", quantity="V")
<i>Int1d</i>	bbnumber (description="Building Block Number", quantity="none")
<i>Double2d</i>	LO_F (description="LO Frequency values", quantity="MHz")
<i>Double1d</i>	DCDC_18P_C (description="DCDC current value for +18V", quantity="A")
<i>Int1d</i>	bbtype (description="Building Block Type", quantity="none")
<i>Double1d</i>	ACS_Ana_1_3P3_V (description="ACS voltage for +3.3V (analog1)", quantity="V")
<i>Int1d</i>	customMapPointNum (description="Custom map pointing number", quantity="1")
<i>Int2d</i>	sampler (description="null", quantity="none")
<i>Double1d</i>	DCDC_5M_C (description="DCDC current value for -5V", quantity="A")
<i>Int1d</i>	nrbytes (description="Number of Bytes", quantity="none")
<i>Int2d</i>	LO_S (description="Status of the LO : Locked (=1) / Unlocked (=0)", quantity="none")
<i>Int2d</i>	channels (description="null", quantity="none")
<i>Double2d</i>	ACS_T (description="ACS Temperature values", quantity="degC")
<i>Long1d</i>	packetTime (description="Packetization Time", quantity="none")
<i>Double2d</i>	integrationTime (description="Integration duration in seconds", quantity="s")
<i>Int1d</i>	integrations (description="Number of Integrations", quantity="none")
<i>Double1d</i>	Chopper (description="Actual chopper positions", quantity="none")
<i>Double1d</i>	IF_8P_V (description="IF voltage for +8V", quantity="V")
<i>Double2d</i>	hot_cold (description="Hot and cold temperatures of the Blackbody Calibrator", quantity="K")
<i>Double1d</i>	latitude (description="latitude (Decl in equatorial coord)", quantity="deg")
<i>Double1d</i>	ACS_Ana_2_3P3_V (description="ACS voltage for +3.3V (analog2)", quantity="V")

<i>Double2d</i>	DCDC_T (description="DCDC Temperature values", quantity="degC")
<i>Int2d</i>	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")
<i>Double1d</i>	DCDC_5P_C (description="DCDC current value for +5V", quantity="A")
<i>Int2d</i>	duration (description="Integration Duration", quantity="none")
<i>Double1d</i>	MJC_Hor (description="Calibrated mixer junction current, horizontal band 1", quantity="mA")
<i>Double1d</i>	posAngleError (description="Position Angle errors", quantity="arcsec")
<i>Double1d</i>	DCDC_8P_C (description="DCDC current value for +8V", quantity="A")
<i>Double1d</i>	DCDC_3P3_C (description="DCDC current value for +3.3V", quantity="A")
<i>String1d</i>	Pol_S (description="Polar used : H/V", quantity="none")
<i>Double1d</i>	IF_5P_V (description="IF voltage for +5V", quantity="V")
<i>Int1d</i>	rasterColumnNum (description="Raster Column number", quantity="1")
<i>String1d</i>	Unit_ID_S (description="Unit used : QM/FM", quantity="none")
<i>Int1d</i>	df_transfer (description="DataFrame Transfer Counter", quantity="none")
<i>Double1d</i>	LoFrequency_measured (description="Local Oscillator Frequency", quantity="GHz")
<i>Int2d</i>	cuts (description="null", quantity="none")
<i>Long1d</i>	obsTime (description="Observation Time (corrected)", quantity="none")
<i>Double1d</i>	MJC_Ver (description="Calibrated mixer junction current, vertical band 1", quantity="mA")
<i>Int1d</i>	rowflag (description="null", quantity="none")
<i>Double1d</i>	ACS_Ana_1P1_V (description="ACS voltage for +1.1V (analog)", quantity="V")
<i>String1d</i>	Switch_S (description="Status of the input IF Switch : H/V", quantity="none")
<i>Double1d</i>	IF_18P_V (description="IF voltage for +18V", quantity="V")
<i>Double1d</i>	velocity_hso_3 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	latitudeError (description="latitude errors", quantity="arcsec")
<i>Bool1d</i>	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
<i>Long1d</i>	hkFlag (description="{HF_AV2_G_SIF1_V=17, HF_AH1_MXBIAS_C=0, HF_AV2_G_SIF3_V=21, HF_AH1_DPACT_V=10, HF_AV2_G_SIF2_V=19, HF_AH2_G_SIF3_V=20, HF_AH2_G_SIF2_V=18, HF_AH2_G_SIF1_V=16, HF_AH2_G_FIF1_V=12, HF_AV1_MXMG_V=7, HF_AP_SCHS_CT=22, HF_AV1_MXBIAS_V=3, HF_AV1_DPACT_C=27,")

	HL_R_M1_1A_C=28, HF_APR_CH_ROT=8, HF_APR_SCC_S_CT=24, HF_AV2_G_FIF1_V=13, HF_AV2_G_FIF2_V=15, HL_R_M1_7A_C=28, HF_AH1_MXMG_V=6, HF_AR_SCHS_CT=23, HF_APR_S2K_CT=25, HL_R_M1_7B_C=28, HF_AH1_MXBIAS_V=2, HF_AV1_MXBIAS_C=1, HF_AV1_MXMG_C=5, HF_DPR_CH_ROT2=9, HF_AH1_DPACT_C=26, HL_R_M2_3B_C=28, HF_AV1_DPACT_V=11}", quantity="none")
<i>Double1d</i>	velocity_hso_1 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	latitude_cmd (description="latitude (Decl in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	velocity_hso_2 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	longitude_cmd (description="longitude (RA in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	ACS_5M_V (description="ACS voltage for -5V", quantity="V")
<i>Double2d</i>	corrVSigma (description="null", quantity="none")
<i>Int2d</i>	LO_F_raw (description="LO Frequency raw values", quantity="MHz")
<i>Double1d</i>	LoFrequency (description="The LO frequency possibly adjusted for Doppler shifts in the data.", quantity="GHz")
<i>Double2d</i>	mSigma (description="null", quantity="none")
<i>Double1d</i>	tsys_median (description="Median of the Tsys array - subbands concatenated.", quantity="none")
<i>Double1d</i>	IF_6P_V (description="IF voltage for +6V", quantity="V")
<i>Int1d</i>	hk_transfer (description="hk_transfer", quantity="none")

1.3.2. HIFI Product Level 2.5 - HRS Spectrum Dataset

<i>product (type="herschel.ia.dataset.Product(HifiSpectrumDataset)", description="HRS Spectrum Dataset")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of channels")

StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
LongParameter	loadInterval (description="Load period in seconds", quantity="s")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	pattAngle (description="Spectral map rotation angle", quantity="degrees")

DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")
DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
LongParameter	n_cycles (description="Number of cycle in the map", quantity="degrees")
LongParameter	n_linesperscan (description="Number of lines per scan", quantity="degrees")
LongParameter	superSampling (description="Supersampling factor in the map", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
BooleanParameter	Valid (description="HRS spectrum contains at least one subband", quantity="degrees")
LongParameter	subbands (description="Number of subbands", quantity="degrees")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="degrees")
StringParameter	wavename (description="Actual name of the WaveColumn", quantity="degrees")

DoubleParameter	channelSpacing (description="Delta of frequency in MHz between 2 points of a HRS spectrum", quantity="MHz")
DoubleParameter	resolution (description="HRS resolution when a Hanning windowing is used, i.e. the channelSpacing * 2", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrumDataset", quantity="MHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")
DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="GHz")
DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="GHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="m2")
StringParameter	temperatureScale (description="Temperature scale in use", quantity="m2")
StringParameter	sideband (description="status: upper or lower side band", quantity="m2")
StringParameter	gainMethod (description="Method used to parametrize the sideband gains coefficients.", quantity="m2")
DoubleParameter	usbGain (description="Sideband gain level applied in the given upper side band spectrum.", quantity="m2")
DoubleParameter	usbGain_0 (description="Sideband gain polynomial coefficients 0 applied.", quantity="m2")
DoubleParameter	usbGain_1 (description="Sideband gain polynomial coefficients 1 applied.", quantity="m2")
DoubleParameter	usbGain_2 (description="Sideband gain polynomial coefficients 2 applied.", quantity="m2")
DoubleParameter	usbGain_3 (description="Sideband gain polynomial coefficients 3 applied.", quantity="m2")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="m2")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="m2")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="m2")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="m2")
DoubleParameter	resolution_resampled (description="Approximate resolution after resampling.", quantity="MHz")
DoubleParameter	frequencyWidth (description="The spacing of the frequency grids after resampling.", quantity="GHz")
DoubleParameter	hpbwAssumed (description="HPBW assumed by doGridding, typically unequal to physical HPBW (metadatum hpbw)", quantity="arcsec")
LongParameter	bbnumber (description="Building Block Number", quantity="arcsec")
DoubleParameter	loFreqAvg (description="Average LO frequency Doppler-corrected to freqFrame (SPECSYS)", quantity="GHz")

StringParameter	fileName (description="filename for exporting purposes", quantity="GHz")
BooleanParameter	selfComputedMapSize (description="The Map grid pixel size is approximated: MetaData doesn't contains 'mapReadoutSep'. MetaData doesn't contains 'mapLineStep'.", quantity="GHz")
DoubleParameter	scanRate (description="Line scan rate of the telescope", quantity="arcsec s-1")
<i>Columns</i>	
<i>table dataset</i>	(name="0001", description="HRS Spectrum Dataset")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of channels")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")

LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
LongParameter	loadInterval (description="Load period in seconds", quantity="s")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	pattAngle (description="Spectral map rotation angle", quantity="degrees")
DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")
DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
LongParameter	n_cycles (description="Number of cycle in the map", quantity="degrees")
LongParameter	n_linesperscan (description="Number of lines per scan", quantity="degrees")
LongParameter	superSampling (description="Supersampling factor in the map", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")

LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
BooleanParameter	Valid (description="HRS spectrum contains at least one subband", quantity="degrees")
LongParameter	subbands (description="Number of subbands", quantity="degrees")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="degrees")
StringParameter	wavename (description="Actual name of the WaveColumn", quantity="degrees")
DoubleParameter	channelSpacing (description="Delta of frequency in MHz between 2 points of a HRS spectrum", quantity="MHz")
DoubleParameter	resolution (description="HRS resolution when a Hanning windowing is used, i.e. the channelSpacing * 2", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrum-Dataset", quantity="MHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")
DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="GHz")
DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="GHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")

DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="m2")
StringParameter	temperatureScale (description="Temperature scale in use", quantity="m2")
StringParameter	sideband (description="status: upper or lower side band", quantity="m2")
StringParameter	gainMethod (description="Method used to parametrize the sideband gains coefficients.", quantity="m2")
DoubleParameter	usbGain (description="Sideband gain level applied in the given upper side band spectrum.", quantity="m2")
DoubleParameter	usbGain_0 (description="Sideband gain polynomial coefficients 0 applied.", quantity="m2")
DoubleParameter	usbGain_1 (description="Sideband gain polynomial coefficients 1 applied.", quantity="m2")
DoubleParameter	usbGain_2 (description="Sideband gain polynomial coefficients 2 applied.", quantity="m2")
DoubleParameter	usbGain_3 (description="Sideband gain polynomial coefficients 3 applied.", quantity="m2")
DoubleParameter	resolution_resampled (description="Approximate resolution after resampling.", quantity="MHz")
DoubleParameter	frequencyWidth (description="The spacing of the frequency grids after resampling.", quantity="GHz")
DoubleParameter	hpbwAssumed (description="HPBW assumed by doGridding, typically unequal to physical HPBW (metadatum hpbw)", quantity="arcsec")
LongParameter	bbnumber (description="Building Block Number", quantity="arcsec")
DoubleParameter	loFreqAvg (description="Average LO frequency Doppler-corrected to freqFrame (SPECSYS)", quantity="GHz")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="GHz")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="GHz")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="GHz")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="GHz")
<i>Columns</i>	
<i>Double2d</i>	flux_1 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	usbfrequency_1 (description="Upper sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_1 (description="null", quantity="none")
<i>Int2d</i>	flag_1 (description="null", quantity="none")
<i>Double2d</i>	flux_2 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	usbfrequency_2 (description="Upper sideband frequency", quantity="GHz")

<i>Double2d</i>	weight_2 (description="null", quantity="none")
<i>Int2d</i>	flag_2 (description="null", quantity="none")
<i>Int1d</i>	rasterLineNum (description="Raster line number", quantity="1")
<i>Double1d</i>	cmd_chopper (description="Commanded chopper positions", quantity="none")
<i>Double1d</i>	posAngle (description="Position Angle", quantity="deg")
<i>Double1d</i>	ACS_5P_V (description="ACS voltage for +5V", quantity="V")
<i>Int2d</i>	colorIndex (description="null", quantity="none")
<i>Int1d</i>	nodCycleNum (description="Switching/nodding cycle number", quantity="1")
<i>Int1d</i>	bitshift (description="Bit Shift", quantity="none")
<i>Int2d</i>	type (description="null", quantity="none")
<i>Int2d</i>	resolution (description="null", quantity="none")
<i>Bool2d</i>	blockselection (description="Block Selection", quantity="none")
<i>Double1d</i>	ACS_18P_V (description="ACS voltage for +18V", quantity="V")
<i>Double2d</i>	IF_T (description="IF Temperature values", quantity="degC")
<i>String1d</i>	Buffer_S (description="Buffer for ACS integration : BufferA/BufferB", quantity="none")
<i>Double1d</i>	longitudeError (description="longitude errors", quantity="arcsec")
<i>Double1d</i>	ACS_8P_V (description="ACS voltage for +8V", quantity="V")
<i>Int1d</i>	buffer (description="Integration Buffer", quantity="none")
<i>Double1d</i>	IF_5M_V (description="IF voltage for -5V", quantity="V")
<i>Double1d</i>	longitude (description="longitude (RA in equatorial coord)", quantity="deg")
<i>Int1d</i>	sequenceNumber (description="Integration Sequence Number", quantity="none")
<i>Double1d</i>	frequency_monitor (description="LSU Frequency Monitor", quantity="MHz")
<i>Double2d</i>	Attenuators (description="IRM attenuator values : 0-15.5 dB", quantity="dB")
<i>Int1d</i>	scanLineNum (description="Scan line number", quantity="1")
<i>Double1d</i>	DCDC_1P1_C (description="DCDC current value for +1.1V", quantity="A")
<i>Double1d</i>	ACS_Dig_3P3_V (description="ACS voltage for +3.3V (digital)", quantity="V")
<i>Int1d</i>	bbnumber (description="Building Block Number", quantity="none")
<i>Double2d</i>	LO_F (description="LO Frequency values", quantity="MHz")
<i>Double1d</i>	DCDC_18P_C (description="DCDC current value for +18V", quantity="A")
<i>Int1d</i>	bbtype (description="Building Block Type", quantity="none")
<i>Double1d</i>	ACS_Ana_1_3P3_V (description="ACS voltage for +3.3V (analog1)", quantity="V")
<i>Int1d</i>	customMapPointNum (description="Custom map pointing number", quantity="1")
<i>Int2d</i>	sampler (description="null", quantity="none")

<i>Double1d</i>	DCDC_5M_C (description="DCDC current value for -5V", quantity="A")
<i>Int1d</i>	nrbytes (description="Number of Bytes", quantity="none")
<i>Int2d</i>	LO_S (description="Status of the LO : Locked (=1) / Unlocked (=0)", quantity="none")
<i>Int2d</i>	channels (description="null", quantity="none")
<i>Double2d</i>	ACS_T (description="ACS Temperature values", quantity="degC")
<i>Long1d</i>	packetTime (description="Packetization Time", quantity="none")
<i>Double2d</i>	integrationTime (description="Integration duration in seconds", quantity="s")
<i>Int1d</i>	integrations (description="Number of Integrations", quantity="none")
<i>Double1d</i>	Chopper (description="Actual chopper positions", quantity="none")
<i>Double1d</i>	IF_8P_V (description="IF voltage for +8V", quantity="V")
<i>Double2d</i>	hot_cold (description="Hot and cold temperatures of the Blackbody Calibrator", quantity="K")
<i>Double1d</i>	latitude (description="latitude (Decl in equatorial coord)", quantity="deg")
<i>Double1d</i>	ACS_Ana_2_3P3_V (description="ACS voltage for +3.3V (analog2)", quantity="V")
<i>Double2d</i>	DCDC_T (description="DCDC Temperature values", quantity="degC")
<i>Int2d</i>	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")
<i>Double1d</i>	DCDC_5P_C (description="DCDC current value for +5V", quantity="A")
<i>Int2d</i>	duration (description="Integration Duration", quantity="none")
<i>Double1d</i>	MJC_Hor (description="Calibrated mixer junction current, horizontal band 1", quantity="mA")
<i>Double1d</i>	posAngleError (description="Position Angle errors", quantity="arc-sec")
<i>Double1d</i>	DCDC_8P_C (description="DCDC current value for +8V", quantity="A")
<i>Double1d</i>	DCDC_3P3_C (description="DCDC current value for +3.3V", quantity="A")
<i>String1d</i>	Pol_S (description="Polar used : H/V", quantity="none")
<i>Double1d</i>	IF_5P_V (description="IF voltage for +5V", quantity="V")
<i>Int1d</i>	rasterColumnNum (description="Raster Column number", quantity="1")
<i>String1d</i>	Unit_ID_S (description="Unit used : QM/FM", quantity="none")
<i>Int1d</i>	df_transfer (description="DataFrame Transfer Counter", quantity="none")
<i>Double1d</i>	LoFrequency_measured (description="Local Oscillator Frequency", quantity="GHz")
<i>Int2d</i>	cuts (description="null", quantity="none")
<i>Long1d</i>	obsTime (description="Observation Time (corrected)", quantity="none")

<i>Double1d</i>	MJC_Ver (description="Calibrated mixer junction current, vertical band 1", quantity="mA")
<i>Int1d</i>	rowflag (description="null", quantity="none")
<i>Double1d</i>	ACS_Ana_1P1_V (description="ACS voltage for +1.1V (analog)", quantity="V")
<i>String1d</i>	Switch_S (description="Status of the input IF Switch : H/V", quantity="none")
<i>Double1d</i>	IF_18P_V (description="IF voltage for +18V", quantity="V")
<i>Double1d</i>	velocity_hso_3 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	latitudeError (description="latitude errors", quantity="arcsec")
<i>Bool1d</i>	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
<i>Long1d</i>	hkFlag (description="{HF_AV2_G_SIF1_V=17, HF_AH1_MXBIAS_C=0, HF_AH1_MXMG_C=4, HF_AV2_G_SIF3_V=21, HF_AH1_DPACT_V=10, HF_AV2_G_SIF2_V=19, HF_AH2_G_SIF3_V=20, HF_AH2_G_SIF2_V=18, HF_AH2_G_SIF1_V=16, HF_AH2_G_FIF1_V=12, HF_AH2_G_FIF2_V=14, HF_AV1_MXMG_V=7, HF_AP_SCHS_CT=22, HF_AV1_MXBIAS_V=3, HF_AV1_DPACT_C=27, HL_R_M1_1A_C=28, HF_APR_CH_ROT=8, HF_APR_SCC_S_CT=24, HF_AV2_G_FIF1_V=13, HF_AV2_G_FIF2_V=15, HL_R_M1_7A_C=28, HF_AH1_MXMG_V=6, HF_AR_SCHS_CT=23, HF_APR_S2K_CT=25, HL_R_M1_7B_C=28, HF_AH1_MXBIAS_V=2, HF_AV1_MXBIAS_C=1, HF_AV1_MXMG_C=5, HF_DPR_CH_ROT2=9, HF_AH1_DPACT_C=26, HL_R_M2_3B_C=28, HF_AV1_DPACT_V=11}", quantity="none")
<i>Double1d</i>	velocity_hso_1 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	latitude_cmd (description="latitude (Decl in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	velocity_hso_2 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	longitude_cmd (description="longitude (RA in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	ACS_5M_V (description="ACS voltage for -5V", quantity="V")
<i>Double2d</i>	corrVSigma (description="null", quantity="none")
<i>Int2d</i>	LO_F_raw (description="LO Frequency raw values", quantity="MHz")
<i>Double1d</i>	LoFrequency (description="The LO frequency possibly adjusted for Doppler shifts in the data.", quantity="GHz")
<i>Double2d</i>	mSigma (description="null", quantity="none")
<i>Double1d</i>	tsys_median (description="Median of the Tsys array - subbands concatenated.", quantity="none")
<i>Double1d</i>	IF_6P_V (description="IF voltage for +6V", quantity="V")
<i>Int1d</i>	hk_transfer (description="hk_transfer", quantity="none")

1.3.3. HIFI Product Level 2.5 - WBS Spectrum Dataset

<i>product (type="herschel.ia.dataset.Product(HifiSpectrumDataset)", description="WBS Spectrum Dataset")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of channels")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")

StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
LongParameter	loadInterval (description="Load period in seconds", quantity="s")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	pattAngle (description="Spectral map rotation angle", quantity="degrees")
DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")
DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
LongParameter	n_cycles (description="Number of cycle in the map", quantity="degrees")
LongParameter	n_linesperscan (description="Number of lines per scan", quantity="degrees")
LongParameter	superSampling (description="Supersampling factor in the map", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")

BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
StringParameter	badLoBand_4 (description="bad Lo in band", quantity="degrees")
LongParameter	Pipeline applied (description="Define which pipeline modules have been applied to the data.\u000A bit 0 = not used \u000A bit 1 = Scan count correction \u000A bit 3 = Dark correction \u000A bit 4 = Non Linearity correction \u000A bit 5 = Zero correction \u000A bit 6 = Frequency calibration applied \u000A", quantity="degrees")
BooleanParameter	isMasked (description="Bad Pixels have been flagged", quantity="degrees")
DoubleParameter	resolution (description="Mean resolution from all combs spectra", quantity="MHz")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrumDataset", quantity="MHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")
DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="GHz")
DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="GHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="m2")
StringParameter	temperatureScale (description="Temperature scale in use", quantity="m2")
StringParameter	sideband (description="status: upper or lower side band", quantity="m2")
StringParameter	gainMethod (description="Method used to parametrize the sideband gains coefficients.", quantity="m2")
DoubleParameter	lsbGain (description="Sideband gain level applied in the given lower side band spectrum.", quantity="m2")

DoubleParameter	lsbGain_0 (description="Sideband gain polynomial coefficients 0 applied.", quantity="m2")
DoubleParameter	lsbGain_1 (description="Sideband gain polynomial coefficients 1 applied.", quantity="m2")
DoubleParameter	lsbGain_2 (description="Sideband gain polynomial coefficients 2 applied.", quantity="m2")
DoubleParameter	lsbGain_3 (description="Sideband gain polynomial coefficients 3 applied.", quantity="m2")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="m2")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="m2")
LongParameter	subbandlength_3 (description="Length of subband 3", quantity="m2")
LongParameter	subbandlength_4 (description="Length of subband 4", quantity="m2")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="m2")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="m2")
LongParameter	subbandstart_3 (description="Starting channel for subband 3", quantity="m2")
LongParameter	subbandstart_4 (description="Starting channel for subband 4", quantity="m2")
DoubleParameter	resolution_resampled (description="Approximate resolution after resampling.", quantity="MHz")
DoubleParameter	frequencyWidth (description="The spacing of the frequency grids after resampling.", quantity="GHz")
DoubleParameter	hpbwAssumed (description="HPBW assumed by doGridding, typically unequal to physical HPBW (metadatum hpbw)", quantity="arcsec")
LongParameter	bbnumber (description="Building Block Number", quantity="arcsec")
DoubleParameter	loFreqAvg (description="Average LO frequency Doppler-corrected to freqFrame (SPECSYS)", quantity="GHz")
StringParameter	fileName (description="filename for exporting purposes", quantity="GHz")
BooleanParameter	selfComputedMapSize (description="The Map grid pixel size is approximated: MetaData doesn't contains 'mapReadoutSep'. MetaData doesn't contains 'mapLineStep'.", quantity="GHz")
DoubleParameter	scanRate (description="Line scan rate of the telescope", quantity="arcsec s-1")
<i>Columns</i>	
<i>table dataset</i>	(name="0001", description="WBS Spectrum Dataset")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")

LongParameter	channels (description="Number of channels")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")

StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
LongParameter	loadInterval (description="Load period in seconds", quantity="s")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	pattAngle (description="Spectral map rotation angle", quantity="degrees")
DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")
DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
LongParameter	n_cycles (description="Number of cycle in the map", quantity="degrees")
LongParameter	n_linesperscan (description="Number of lines per scan", quantity="degrees")
LongParameter	superSampling (description="Supersampling factor in the map", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")

BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
StringParameter	badLoBand_4 (description="bad Lo in band", quantity="degrees")
LongParameter	Pipeline applied (description="Define which pipeline modules have been applied to the data.\u000A bit 0 = not used \u000A bit 1 = Scan count correction \u000A bit 3 = Dark correction \u000A bit 4 = Non Linearity correction \u000A bit 5 = Zero correction \u000A bit 6 = Frequency calibration applied \u000A", quantity="degrees")
BooleanParameter	isMasked (description="Bad Pixels have been flagged", quantity="degrees")
DoubleParameter	resolution (description="Mean resolution from all combs spectra", quantity="MHz")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrum-Dataset", quantity="MHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")
DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="GHz")
DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="GHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="m2")
StringParameter	temperatureScale (description="Temperature scale in use", quantity="m2")
StringParameter	sideband (description="status: upper or lower side band", quantity="m2")
StringParameter	gainMethod (description="Method used to parametrize the sideband gains coefficients.", quantity="m2")
DoubleParameter	lsbGain (description="Sideband gain level applied in the given lower side band spectrum.", quantity="m2")
DoubleParameter	lsbGain_0 (description="Sideband gain polynomial coefficients 0 applied.", quantity="m2")
DoubleParameter	lsbGain_1 (description="Sideband gain polynomial coefficients 1 applied.", quantity="m2")
DoubleParameter	lsbGain_2 (description="Sideband gain polynomial coefficients 2 applied.", quantity="m2")

DoubleParameter	lsbGain_3 (description="Sideband gain polynomial coefficients 3 applied.", quantity="m2")
DoubleParameter	resolution_resampled (description="Approximate resolution after resampling.", quantity="MHz")
DoubleParameter	frequencyWidth (description="The spacing of the frequency grids after resampling.", quantity="GHz")
DoubleParameter	hpbwAssumed (description="HPBW assumed by doGridding, typically unequal to physical HPBW (metadatum hpbw)", quantity="arcsec")
LongParameter	bbnumber (description="Building Block Number", quantity="arcsec")
DoubleParameter	loFreqAvg (description="Average LO frequency Doppler-corrected to freqFrame (SPECSYS)", quantity="GHz")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="GHz")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="GHz")
<i>Columns</i>	
<i>Double2d</i>	flux_1 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	lsbfrequency_1 (description="Lower sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_1 (description="null", quantity="none")
<i>Int2d</i>	flag_1 (description="null", quantity="none")
<i>Int1d</i>	rasterLineNum (description="Raster line number", quantity="1")
<i>Double1d</i>	cmd_chopper (description="Commanded chopper positions", quantity="none")
<i>Double1d</i>	posAngle (description="Position Angle", quantity="deg")
<i>Double1d</i>	latitude (description="latitude (Decl in equatorial coord)", quantity="deg")
<i>Int1d</i>	nodCycleNum (description="Switching/nodding cycle number", quantity="1")
<i>Int2d</i>	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")
<i>Int1d</i>	bitshift (description="Bit Shift", quantity="none")
<i>Double1d</i>	MJC_Hor (description="Calibrated mixer junction current, horizontal band 1", quantity="mA")
<i>Double1d</i>	posAngleError (description="Position Angle errors", quantity="arcsec")
<i>Double1d</i>	longitudeError (description="longitude errors", quantity="arcsec")
<i>Double3d</i>	dark (description="Dark Current Data", quantity="none")
<i>Int1d</i>	scancount (description="Integrated Scan Count", quantity="none")
<i>Int1d</i>	buffer (description="Integration Buffer", quantity="none")
<i>Int1d</i>	rasterColumnNum (description="Raster Column number", quantity="1")
<i>Int1d</i>	df_transfer (description="DataFrame Transfer Counter", quantity="none")
<i>Double1d</i>	LoFrequency_measured (description="Local Oscillator Frequency", quantity="GHz")

<i>DoubleId</i>	longitude (description="longitude (RA in equatorial coord)", quantity="deg")
<i>IntId</i>	sequenceNumber (description="Integration Sequence Number", quantity="none")
<i>DoubleId</i>	frequency_monitor (description="LSU Frequency Monitor", quantity="MHz")
<i>IntId</i>	scanLineNum (description="Scan line number", quantity="1")
<i>IntId</i>	bbnumber (description="Building Block Number", quantity="none")
<i>LongId</i>	obsTime (description="Observation Time", quantity="none")
<i>DoubleId</i>	MJC_Ver (description="Calibrated mixer junction current, vertical band 1", quantity="mA")
<i>IntId</i>	rowflag (description="null", quantity="none")
<i>IntId</i>	bbtype (description="Building Block Type", quantity="none")
<i>IntId</i>	customMapPointNum (description="Custom map pointing number", quantity="1")
<i>IntId</i>	IN_ATT (description="null", quantity="none")
<i>DoubleId</i>	velocity_hso_3 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>DoubleId</i>	latitudeError (description="latitude errors", quantity="arcsec")
<i>BoolId</i>	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
<i>LongId</i>	hkFlag (description="{HF_AV2_G_SIF1_V=17, HF_AH1_MXBIAS_C=0, HF_AH1_MXMG_C=4, HF_AV2_G_SIF3_V=21, HF_AH1_DPACT_V=10, HF_AV2_G_SIF2_V=19, HF_AH2_G_SIF3_V=20, HF_AH2_G_SIF2_V=18, HF_AH2_G_SIF1_V=16, HF_AH2_G_FIF1_V=12, HF_AH2_G_FIF2_V=14, HF_AV1_MXMG_V=7, HF_AP_SCHS_CT=22, HF_AV1_MXBIAS_V=3, HF_AV1_DPACT_C=27, HL_R_M1_1A_C=28, HF_APR_CH_ROT=8, HF_APR_SCCS_CT=24, HF_AV2_G_FIF1_V=13, HF_AV2_G_FIF2_V=15, HL_R_M1_7A_C=28, HF_AH1_MXMG_V=6, HF_AR_SCHS_CT=23, HF_APR_S2K_CT=25, HL_R_M1_7B_C=28, HF_AH1_MXBIAS_V=2, HF_AV1_MXBIAS_C=1, HF_AV1_MXMG_C=5, HF_DPR_CH_ROT2=9, HF_AH1_DPACT_C=26, HL_R_M2_3B_C=28, HF_AV1_DPACT_V=11}", quantity="none")
<i>DoubleId</i>	velocity_hso_1 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>DoubleId</i>	latitude_cmd (description="latitude (Decl in equatorial coord) average H and V", quantity="deg")
<i>DoubleId</i>	velocity_hso_2 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>IntId</i>	nrbytes (description="Number of Bytes", quantity="none")
<i>LongId</i>	packetTime (description="Packetization Time", quantity="none")
<i>DoubleId</i>	longitude_cmd (description="longitude (RA in equatorial coord) average H and V", quantity="deg")

<i>Int2d</i>	badLo (description="bit 0=Bad LO; bit 1=Weak_spur; bit 2=Strong_spur; bit 3=Strong_instability; bit 4=IF_saturation;", quantity="none")
<i>Int2d</i>	Band_ATT (description="null", quantity="none")
<i>Double1d</i>	LoFrequency (description="The LO frequency possibly adjusted for Doppler shifts in the data.", quantity="GHz")
<i>Double1d</i>	integrationTime (description="Integration duration in seconds", quantity="s")
<i>Double1d</i>	tsys_median (description="Median of the Tsys array - subbands concatenated.", quantity="none")
<i>Int1d</i>	integrations (description="Number of Integrations", quantity="none")
<i>Double1d</i>	Chopper (description="Actual chopper positions", quantity="none")
<i>Double2d</i>	hot_cold (description="Hot and cold temperatures of the Blackbody Calibrator", quantity="K")
<i>Int1d</i>	hk_transfer (description="hk_transfer", quantity="none")

1.3.4. HIFI Product Level 2.5 - WBS Spectrum Dataset

<i>product (type="herschel.ia.dataset.Product(HifiSpectrumDataset)", description="WBS Spectrum Dataset")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of channels")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")

StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
LongParameter	loadInterval (description="Load period in seconds", quantity="s")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	pattAngle (description="Spectral map rotation angle", quantity="degrees")
DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")
DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
LongParameter	n_cycles (description="Number of cycle in the map", quantity="degrees")
LongParameter	n_linesperscan (description="Number of lines per scan", quantity="degrees")

LongParameter	superSampling (description="Supersampling factor in the map", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
StringParameter	badLoBand_4 (description="bad Lo in band", quantity="degrees")
LongParameter	Pipeline applied (description="Define which pipeline modules have been applied to the data.\u000A bit 0 = not used \u000A bit 1 = Scan count correction \u000A bit 3 = Dark correction \u000A bit 4 = Non Linearity correction \u000A bit 5 = Zero correction \u000A bit 6 = Frequency calibration applied \u000A", quantity="degrees")
BooleanParameter	isMasked (description="Bad Pixels have been flagged", quantity="degrees")
DoubleParameter	resolution (description="Mean resolution from all combs spectra", quantity="MHz")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrumDataset", quantity="MHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")

DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="GHz")
DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="GHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="m2")
StringParameter	temperatureScale (description="Temperature scale in use", quantity="m2")
StringParameter	sideband (description="status: upper or lower side band", quantity="m2")
StringParameter	gainMethod (description="Method used to parametrize the sideband gains coefficients.", quantity="m2")
DoubleParameter	usbGain (description="Sideband gain level applied in the given upper side band spectrum.", quantity="m2")
DoubleParameter	usbGain_0 (description="Sideband gain polynomial coefficients 0 applied.", quantity="m2")
DoubleParameter	usbGain_1 (description="Sideband gain polynomial coefficients 1 applied.", quantity="m2")
DoubleParameter	usbGain_2 (description="Sideband gain polynomial coefficients 2 applied.", quantity="m2")
DoubleParameter	usbGain_3 (description="Sideband gain polynomial coefficients 3 applied.", quantity="m2")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="m2")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="m2")
LongParameter	subbandlength_3 (description="Length of subband 3", quantity="m2")
LongParameter	subbandlength_4 (description="Length of subband 4", quantity="m2")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="m2")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="m2")
LongParameter	subbandstart_3 (description="Starting channel for subband 3", quantity="m2")
LongParameter	subbandstart_4 (description="Starting channel for subband 4", quantity="m2")
DoubleParameter	resolution_resampled (description="Approximate resolution after resampling.", quantity="MHz")
DoubleParameter	frequencyWidth (description="The spacing of the frequency grids after resampling.", quantity="GHz")
DoubleParameter	hpbwAssumed (description="HPBW assumed by doGridding, typically unequal to physical HPBW (metadatum hpbw)", quantity="arcsec")
LongParameter	bbnumber (description="Building Block Number", quantity="arcsec")
DoubleParameter	loFreqAvg (description="Average LO frequency Doppler-corrected to freqFrame (SPECSYS)", quantity="GHz")
StringParameter	fileName (description="filename for exporting purposes", quantity="GHz")
BooleanParameter	selfComputedMapSize (description="The Map grid pixel size is approximated: MetaData doesn't contains 'mapReadoutSep'. MetaData doesn't contains 'mapLineStep'.", quantity="GHz")
DoubleParameter	scanRate (description="Line scan rate of the telescope", quantity="arcsec s-1")

<i>Columns</i>	
<i>table dataset</i>	(name="0001", description="WBS Spectrum Dataset")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of channels")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")

StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
LongParameter	loadInterval (description="Load period in seconds", quantity="s")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	pattAngle (description="Spectral map rotation angle", quantity="degrees")
DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")
DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
LongParameter	n_cycles (description="Number of cycle in the map", quantity="degrees")
LongParameter	n_linesperscan (description="Number of lines per scan", quantity="degrees")
LongParameter	superSampling (description="Supersampling factor in the map", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")

LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
StringParameter	badLoBand_4 (description="bad Lo in band", quantity="degrees")
LongParameter	Pipeline applied (description="Define which pipeline modules have been applied to the data.\u000A bit 0 = not used \u000A bit 1 = Scan count correction \u000A bit 3 = Dark correction \u000A bit 4 = Non Linearity correction \u000A bit 5 = Zero correction \u000A bit 6 = Frequency calibration applied \u000A", quantity="degrees")
BooleanParameter	isMasked (description="Bad Pixels have been flagged", quantity="degrees")
DoubleParameter	resolution (description="Mean resolution from all combs spectra", quantity="MHz")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrum-Dataset", quantity="MHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")
DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="GHz")
DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="GHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")

StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="m2")
StringParameter	temperatureScale (description="Temperature scale in use", quantity="m2")
StringParameter	sideband (description="status: upper or lower side band", quantity="m2")
StringParameter	gainMethod (description="Method used to parametrize the sideband gains coefficients.", quantity="m2")
DoubleParameter	usbGain (description="Sideband gain level applied in the given upper side band spectrum.", quantity="m2")
DoubleParameter	usbGain_0 (description="Sideband gain polynomial coefficients 0 applied.", quantity="m2")
DoubleParameter	usbGain_1 (description="Sideband gain polynomial coefficients 1 applied.", quantity="m2")
DoubleParameter	usbGain_2 (description="Sideband gain polynomial coefficients 2 applied.", quantity="m2")
DoubleParameter	usbGain_3 (description="Sideband gain polynomial coefficients 3 applied.", quantity="m2")
DoubleParameter	resolution_resampled (description="Approximate resolution after resampling.", quantity="MHz")
DoubleParameter	frequencyWidth (description="The spacing of the frequency grids after resampling.", quantity="GHz")
DoubleParameter	hpbwAssumed (description="HPBW assumed by doGridding, typically unequal to physical HPBW (metadatum hpbw)", quantity="arcsec")
LongParameter	bbnumber (description="Building Block Number", quantity="arcsec")
DoubleParameter	loFreqAvg (description="Average LO frequency Doppler-corrected to freqFrame (SPECSYS)", quantity="GHz")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="GHz")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="GHz")
<i>Columns</i>	
<i>Double2d</i>	flux_1 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	usbfrequency_1 (description="Upper sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_1 (description="null", quantity="none")
<i>Int2d</i>	flag_1 (description="null", quantity="none")
<i>Int1d</i>	rasterLineNum (description="Raster line number", quantity="1")
<i>Double1d</i>	cmd_chopper (description="Commanded chopper positions", quantity="none")
<i>Double1d</i>	posAngle (description="Position Angle", quantity="deg")
<i>Double1d</i>	latitude (description="latitude (Decl in equatorial coord)", quantity="deg")
<i>Int1d</i>	nodCycleNum (description="Switching/nodding cycle number", quantity="1")
<i>Int2d</i>	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")

<i>Int1d</i>	bitshift (description="Bit Shift", quantity="none")
<i>Double1d</i>	MJC_Hor (description="Calibrated mixer junction current, horizontal band 1", quantity="mA")
<i>Double1d</i>	posAngleError (description="Position Angle errors", quantity="arcsec")
<i>Double1d</i>	longitudeError (description="longitude errors", quantity="arcsec")
<i>Double3d</i>	dark (description="Dark Current Data", quantity="none")
<i>Int1d</i>	scancount (description="Integrated Scan Count", quantity="none")
<i>Int1d</i>	buffer (description="Integration Buffer", quantity="none")
<i>Int1d</i>	rasterColumnNum (description="Raster Column number", quantity="1")
<i>Int1d</i>	df_transfer (description="DataFrame Transfer Counter", quantity="none")
<i>Double1d</i>	LoFrequency_measured (description="Local Oscillator Frequency", quantity="GHz")
<i>Double1d</i>	longitude (description="longitude (RA in equatorial coord)", quantity="deg")
<i>Int1d</i>	sequenceNumber (description="Integration Sequence Number", quantity="none")
<i>Double1d</i>	frequency_monitor (description="LSU Frequency Monitor", quantity="MHz")
<i>Int1d</i>	scanLineNum (description="Scan line number", quantity="1")
<i>Int1d</i>	bbnumber (description="Building Block Number", quantity="none")
<i>Long1d</i>	obsTime (description="Observation Time", quantity="none")
<i>Double1d</i>	MJC_Ver (description="Calibrated mixer junction current, vertical band 1", quantity="mA")
<i>Int1d</i>	rowflag (description="null", quantity="none")
<i>Int1d</i>	bbtype (description="Building Block Type", quantity="none")
<i>Int1d</i>	customMapPointNum (description="Custom map pointing number", quantity="1")
<i>Int1d</i>	IN_ATT (description="null", quantity="none")
<i>Double1d</i>	velocity_hso_3 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	latitudeError (description="latitude errors", quantity="arcsec")
<i>Bool1d</i>	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
<i>Long1d</i>	hkFlag (description="{HF_AV2_G_SIF1_V=17, HF_AH1_MXBIAS_C=0, HF_AV2_G_SIF3_V=21, HF_AH1_MXMG_C=4, HF_AV2_G_SIF2_V=19, HF_AH1_DPACT_V=10, HF_AH2_G_SIF3_V=20, HF_AH2_G_SIF2_V=18, HF_AH2_G_SIF1_V=16, HF_AH2_G_FIF1_V=12, HF_AH2_G_FIF2_V=14, HF_AV1_MXMG_V=7, HF_AP_SCHS_CT=22, HF_AV1_MXBIAS_V=3, HF_AV1_DPACT_C=27, HL_R_M1_1A_C=28, HF_APR_CH_ROT=8, HF_APR_SCC_S_CT=24, HF_AV2_G_FIF1_V=13, HF_AV2_G_FIF2_V=15, HL_R_M1_7A_C=28, HF_AH1_MXMG_V=6, HF_AR_SCHS_CT=23, HF_APR_S2K_CT=25, HL_R_M1_7B_C=28,")

	HF_AH1_MXBIAS_V=2, HF_AV1_MXBIAS_C=1, HF_AV1_MXMG_C=5, HF_DPR_CH_ROT2=9, HF_AH1_DPACT_C=26, HL_R_M2_3B_C=28, HF_AV1_DPACT_V=11}], quantity="none")
<i>Double1d</i>	velocity_hso_1 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	latitude_cmd (description="latitude (Decl in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	velocity_hso_2 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Int1d</i>	nrbytes (description="Number of Bytes", quantity="none")
<i>Long1d</i>	packetTime (description="Packetization Time", quantity="none")
<i>Double1d</i>	longitude_cmd (description="longitude (RA in equatorial coord) average H and V", quantity="deg")
<i>Int2d</i>	badLo (description="bit 0=Bad LO; bit 1=Weak_spur; bit 2=Strong_spur; bit 3=Strong_instability; bit 4=IF_saturation;", quantity="none")
<i>Int2d</i>	Band_ATT (description="null", quantity="none")
<i>Double1d</i>	LoFrequency (description="The LO frequency possibly adjusted for Doppler shifts in the data.", quantity="GHz")
<i>Double1d</i>	integrationTime (description="Integration duration in seconds", quantity="s")
<i>Double1d</i>	tsys_median (description="Median of the Tsys array - subbands concatenated.", quantity="none")
<i>Int1d</i>	integrations (description="Number of Integrations", quantity="none")
<i>Double1d</i>	Chopper (description="Actual chopper positions", quantity="none")
<i>Double2d</i>	hot_cold (description="Hot and cold temperatures of the Blackbody Calibrator", quantity="K")
<i>Int1d</i>	hk_transfer (description="hk_transfer", quantity="none")

1.3.5. HIFI Product Level 2.5 - HIFI cube product

<i>product (type="cube", description="HIFI cube product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of the product format")
LongParameter	naxis1 (description="null")
LongParameter	naxis2 (description="null")

LongParameter	naxis3 (description="null")
StringParameter	level (description="null")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	sideband (description="upper or lower subband")
LongParameter	obsid (description="Observation Identifier")
LongParameter	apid (description="Application Programme Identifier")
StringParameter	Band (description="Active band")
DoubleParameter	rfreq (description="frequency of the central channel of the LSB", quantity="GHz")
StringParameter	cusMode (description="CUS observation mode", quantity="GHz")
StringParameter	aorLabel (description="AOR Label as entered in HSpot", quantity="GHz")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="GHz")
BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="GHz")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="GHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	hpbwAssumed (description="HPBW assumed by doGridding, typically unequal to physical HPBW (metadatum hpbw)", quantity="arcsec")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	scanRate (description="Line scan rate of the telescope", quantity="arcsec s-1")
BooleanParameter	selfComputedMapSize (description="The Map grid pixel size is approximated: MetaData doesn't contains 'mapReadoutSep'. MetaData doesn't contains 'mapLineStep'.", quantity="arcsec s-1")
DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")
DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")
StringParameter	backend (description="Spectrograph: WBS or HRS", quantity="arcmin")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="arcmin")
DoubleParameter	resolution_resampled (description="Approximate resolution after resampling.", quantity="MHz")
StringParameter	fileName (description="filename for exporting purposes", quantity="MHz")
StringParameter	version (description="Version of the product", quantity="MHz")
StringParameter	beamUsed (description="beam size in rad used in the convolution", quantity="MHz")
StringParameter	pixelSize (description="regular grid pixels size in rad", quantity="MHz")
StringParameter	mapSize (description="map size in pixels", quantity="MHz")
StringParameter	refPixelCoordinates (description="reference pixel in longitude/latitude coordinates", quantity="MHz")
StringParameter	pixelOffset (description="pixel offset position", quantity="MHz")

StringParameter	regular_grid_wcs (description="WCS used to build the RegularGrid", quantity="MHz")
BooleanParameter	loadAll (description="Data are keep in memory", quantity="MHz")
StringParameter	datasetIndices (description="Indices of the datasets to be used to create a cube. The values set here will override any input from the datasetTypes parameter.", quantity="MHz")
BooleanParameter	comoving (description="Needed for maps of Solar System Objects. Makes a cube with a map centre that follows the coordinates of a moving target. By default this option is not enabled.", quantity="MHz")
DoubleParameter	flyAngle (description="Angle of the map respect to ra/dec axes", quantity="MHz")
StringParameter	channels (description="Specify the start and end range (in channel numbers) of the cube to be produced. By default all channels are used.", quantity="MHz")
BooleanParameter	offsetsTable (description="it use an external table of x/y points for each spectrum to set the center of the map", quantity="MHz")
StringParameter	datasetType (description="type of the datasets to be read e.g. "science", quantity="MHz")
StringParameter	smoothFactor (description="A smoothing factor to expand the kernel size for X and Y directions", quantity="MHz")
BooleanParameter	ignoreOffs (description="Ignore datasets from the OFF position. You can include OFF positions by setting this to False", quantity="MHz")
DoubleParameter	mapWidthGridded (description="The RA size of the Map in arcmin", quantity="arcmin")
DoubleParameter	mapHeightGridded (description="The DEC size of the Map in arcmin", quantity="arcmin")
DoubleParameter	mapWidthObserved (description="The RA area that the telescope has scanned over all ON cycles", quantity="arcmin")
DoubleParameter	mapHeightObserved (description="The DEC area that the telescope has scanned over all ON cycles", quantity="arcmin")
StringParameter	calVersion (description="HIFI calibration version", quantity="arcmin")
LongParameter	subband (description="segment (subband id)", quantity="arcmin")
StringParameter	aot (description="AOT Identifier", quantity="arcmin")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
LongParameter	naifId (description="Solar system object NAIF identifier", quantity="deg")
StringParameter	object (description="Target of Observation", quantity="deg")
StringParameter	observer (description="Observer name", quantity="deg")
StringParameter	author (description="author of this product", quantity="deg")
StringParameter	origin (description="site that created the product", quantity="deg")
StringParameter	telescope (description="name of telescope", quantity="deg")
StringParameter	obsMode (description="Observation Mode", quantity="deg")
LongParameter	odNumber (description="Operational day number", quantity="deg")

StringParameter	proposal (description="Proposal name", quantity="deg")
StringParameter	missionConfig (description="Mission configuration", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	epoch (description="Epoch of coordinates", quantity="deg")
DoubleParameter	fresol (description="Channel separation, frequency units", quantity="GHz")
<i>Columns</i>	
<i>array dataset</i>	(description="Antenna Temperature")
<i>Metadata</i>	
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
DoubleParameter	crota2 (description="The Rotation angle")
DoubleParameter	epoch (description="WCS: Epoch, unit=Duration")
DoubleParameter	equinox (description="WCS: Equinox, unit=Duration")
StringParameter	radesys (description="WCS: Reference frame, default="ICRS")
DoubleParameter	crpix3 (description="WCS: Reference layer index, unit=Scalar")
DoubleParameter	crval3 (description="WCS: Wavelength, time, ... of reference layer; unit=length,time,...")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represents")
StringParameter	cunit3 (description="WCS: Unit axis 3, default="")
DoubleParameter	cdelt3 (description="WCS: Scale in 3rd dimension, unit=Length, Duration, ...")
<i>Columns</i>	
<i>Double3d</i>	(description="Antenna Temperature", quantity="K")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="weight", description="Weights")

1.3.6. HIFI Product Level 2.5 - HIFI cube product

<i>product (type="cube", description="HIFI cube product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")

StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of the product format")
LongParameter	naxis1 (description="null")
LongParameter	naxis2 (description="null")
LongParameter	naxis3 (description="null")
StringParameter	level (description="null")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	sideband (description="upper or lower subband")
LongParameter	obsid (description="Observation Identifier")
LongParameter	apid (description="Application Programme Identifier")
StringParameter	Band (description="Active band")
DoubleParameter	rfreq (description="frequency of the central channel of the USB", quantity="GHz")
StringParameter	cusMode (description="CUS observation mode", quantity="GHz")
StringParameter	aorLabel (description="AOR Label as entered in HSpot", quantity="GHz")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="GHz")
BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="GHz")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="GHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	hpbwAssumed (description="HPBW assumed by doGridding, typically unequal to physical HPBW (metadatum hpbw)", quantity="arcsec")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	scanRate (description="Line scan rate of the telescope", quantity="arcsec s-1")
BooleanParameter	selfComputedMapSize (description="The Map grid pixel size is approximated: MetaData doesn't contains 'mapReadoutSep'. MetaData doesn't contains 'mapLineStep'.", quantity="arcsec s-1")
DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")
DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")
StringParameter	backend (description="Spectrograph: WBS or HRS", quantity="arcmin")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="arcmin")
DoubleParameter	resolution_resampled (description="Approximate resolution after resampling.", quantity="MHz")

StringParameter	fileName (description="filename for exporting purposes", quantity="MHz")
StringParameter	version (description="Version of the product", quantity="MHz")
StringParameter	beamUsed (description="beam size in rad used in the convolution", quantity="MHz")
StringParameter	pixelSize (description="regular grid pixels size in rad", quantity="MHz")
StringParameter	mapSize (description="map size in pixels", quantity="MHz")
StringParameter	refPixelCoordinates (description="reference pixel in longitude/latitude coordinates", quantity="MHz")
StringParameter	pixelOffset (description="pixel offset position", quantity="MHz")
StringParameter	regular_grid_wcs (description="WCS used to build the RegularGrid", quantity="MHz")
BooleanParameter	loadAll (description="Data are keep in memory", quantity="MHz")
StringParameter	datasetIndices (description="Indices of the datasets to be used to create a cube. The values set here will override any input from the datasetTypes parameter.", quantity="MHz")
BooleanParameter	comoving (description="Needed for maps of Solar System Objects. Makes a cube with a map centre that follows the coordinates of a moving target. By default this option is not enabled.", quantity="MHz")
DoubleParameter	flyAngle (description="Angle of the map respect to ra/dec axes", quantity="MHz")
StringParameter	channels (description="Specify the start and end range (in channel numbers) of the cube to be produced. By default all channels are used.", quantity="MHz")
BooleanParameter	offsetsTable (description="it use an external table of x/y points for each spectrum to set the center of the map", quantity="MHz")
StringParameter	datasetType (description="type of the datasets to be read e.g. "science"", quantity="MHz")
StringParameter	smoothFactor (description="A smoothing factor to expand the kernel size for X and Y directions", quantity="MHz")
BooleanParameter	ignoreOffs (description="Ignore datasets from the OFF position. You can include OFF positions by setting this to False", quantity="MHz")
DoubleParameter	mapWidthGridded (description="The RA size of the Map in arcmin", quantity="arcmin")
DoubleParameter	mapHeightGridded (description="The DEC size of the Map in arcmin", quantity="arcmin")
DoubleParameter	mapWidthObserved (description="The RA area that the telescope has scanned over all ON cycles", quantity="arcmin")
DoubleParameter	mapHeightObserved (description="The DEC area that the telescope has scanned over all ON cycles", quantity="arcmin")
StringParameter	calVersion (description="HIFI calibration version", quantity="arcmin")
LongParameter	subband (description="segment (subband id)", quantity="arcmin")
StringParameter	aot (description="AOT Identifier", quantity="arcmin")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")

LongParameter	naifId (description="Solar system object NAIF identifier", quantity="deg")
StringParameter	object (description="Target of Observation", quantity="deg")
StringParameter	observer (description="Observer name", quantity="deg")
StringParameter	author (description="author of this product", quantity="deg")
StringParameter	origin (description="site that created the product", quantity="deg")
StringParameter	telescope (description="name of telescope", quantity="deg")
StringParameter	obsMode (description="Observation Mode", quantity="deg")
LongParameter	odNumber (description="Operational day number", quantity="deg")
StringParameter	proposal (description="Proposal name", quantity="deg")
StringParameter	missionConfig (description="Mission configuration", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	epoch (description="Epoch of coordinates", quantity="deg")
DoubleParameter	fresol (description="Channel separation, frequency units", quantity="GHz")
<i>Columns</i>	
<i>array dataset</i>	(description="Antenna Temperature")
<i>Metadata</i>	
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
DoubleParameter	crota2 (description="The Rotation angle")
DoubleParameter	epoch (description="WCS: Epoch, unit=Duration")
DoubleParameter	equinox (description="WCS: Equinox, unit=Duration")
StringParameter	radesys (description="WCS: Reference frame, default="ICRS")
DoubleParameter	crpix3 (description="WCS: Reference layer index, unit=Scalar")
DoubleParameter	crval3 (description="WCS: Wavelength, time, ... of reference layer; unit=length,time,...")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represents")
StringParameter	cunit3 (description="WCS: Unit axis 3, default="")
DoubleParameter	cdelt3 (description="WCS: Scale in 3rd dimension, unit=Length, Duration, ...")
<i>Columns</i>	
<i>Double3d</i>	(description="Antenna Temperature", quantity="K")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="weight", description="Weights")

Chapter 2. HIFI products

2.1. HIFICAL Product - HIFI Calibration Product

<i>product (type="HifiCalibrationProduct", description="HIFI Calibration Product")</i>			
<i>Metadata</i>			
StringParameter	type	(description="Product Type Identification")	
StringParameter	creator	(description="Generator of this product")	
DateParameter	creationDate	(description="Creation date of this product")	
StringParameter	description	(description="Name of this product")	
StringParameter	instrument	(description="Instrument attached to this product")	
StringParameter	modelName	(description="Model name attached to this product")	
DateParameter	startDate	(description="Start date of this product")	
DateParameter	endDate	(description="End date of this product")	
StringParameter	formatVersion	(description="Version of product format")	
LongParameter	calversion	(description="Version of this product")	
StringParameter	name	(description="Name of this Product")	
<i>Columns</i>			
<i>table dataset (name="diplexerCoefficients", description="HIFI Calibration Product")</i>			
<i>Metadata</i>			
StringParameter	type	(description="Product Type Identification")	
StringParameter	creator	(description="Generator of this product")	
DateParameter	creationDate	(description="Creation date of this product")	
StringParameter	description	(description="Name of this product")	
StringParameter	instrument	(description="Instrument attached to this product")	
StringParameter	modelName	(description="Model name attached to this product")	
DateParameter	startDate	(description="Start date of this product")	
DateParameter	DATE_OBS	(description="Start date of this product")	
DateParameter	endDate	(description="End date of this product")	
StringParameter	formatVersion	(description="Version of product format")	
LongParameter	calversion	(description="Version of this product")	
StringParameter	name	(description="Name of this Product")	
<i>Columns</i>			
<i>StringId</i>	band	(description="null", quantity="none")	
<i>DoubleId</i>	c1	(description="null", quantity="mm/mA^2")	
<i>DoubleId</i>	c2	(description="null", quantity="mm/mA")	
<i>DoubleId</i>	c0	(description="null", quantity="mm")	

2.2. HIFICAL Product - Beam and spatial characteristics of HIFI mixer 1H

<i>product (type="HifiCalibrationProduct", description="Beam and spatial characteristics of HIFI mixer 1H")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:mm:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="null")
StringParameter	name (description="null")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 1, mixer H")
StringParameter	band (description="Band 1, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
StringParameter	cunit1 (description="Unit axis 1", quantity="m**2")
StringParameter	cunit2 (description="Unit axis 2", quantity="m**2")
StringParameter	ctype1 (description="Coordinate type axis 1 is linear", quantity="m**2")
StringParameter	ctype2 (description="Coordinate type axis 2 is linear", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	
<i>table dataset</i>	<i>(name="2DBeams", description="Beam and spatial characteristics of HIFI mixer 1H")</i>
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")

DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:m:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 1, mixer H")
StringParameter	band (description="Band 1, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
StringParameter	cunit1 (description="Unit axis 1", quantity="m**2")
StringParameter	cunit2 (description="Unit axis 2", quantity="m**2")
StringParameter	ctype1 (description="Coordinate type axis 1 is linear", quantity="m**2")
StringParameter	ctype2 (description="Coordinate type axis 2 is linear", quantity="m**2")
LongParameter	calversion (description="null", quantity="m**2")
StringParameter	name (description="null", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	
<i>Float1d</i>	frequency (description="Topocentric LO frequency for which this beam product is calculated", quantity="GHz")
<i>Float3d</i>	beam (description="Beam and spatial characteristics of HIFI mixer", quantity="none")
<i>Float1d</i>	hpbw (description="Half-Power Beam Width", quantity="arcsec")
<i>Float1d</i>	cdelt1 (description="Coordinate increment axis 1", quantity="none")
<i>Float1d</i>	cdelt2 (description="Coordinate increment axis 2", quantity="none")
<i>Float1d</i>	crpix1 (description="Reference point axis 1", quantity="none")
<i>Float1d</i>	crpix2 (description="Reference point axis 2", quantity="none")
<i>Float1d</i>	crval1 (description="Reference value axis 1", quantity="none")
<i>Float1d</i>	crval2 (description="Reference value axis 2", quantity="none")
<i>Float1d</i>	etaA (description="Aperture efficiency", quantity="none")
<i>Float1d</i>	etaMb (description="Main-beam efficiency", quantity="none")

<i>Float1d</i>	forwardEff (description="Forward efficiency", quantity="none")
<i>Float1d</i>	thetaS1 (description="Semi-angle first sidelobe", quantity="arcsec")
<i>Float1d</i>	thetaMb (description="Main-beam semi-angle", quantity="arcsec")
<i>Float1d</i>	edgeTaper (description="Edge taper at secondary mirror", quantity="d-B")
<i>Float1d</i>	slLevel (description="Peak sidelobe level", quantity="dB")

2.3. HIFICAL Product - Beam and spatial characteristics of HIFI mixer 1V

<i>product (type="HifiCalibrationProduct", description="Beam and spatial characteristics of HIFI mixer 1V")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:mm:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="null")
StringParameter	name (description="null")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 1, mixer V")
StringParameter	band (description="Band 1, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
StringParameter	cunit1 (description="Unit axis 1", quantity="m**2")
StringParameter	cunit2 (description="Unit axis 2", quantity="m**2")
StringParameter	ctype1 (description="Coordinate type axis 1 is linear", quantity="m**2")
StringParameter	ctype2 (description="Coordinate type axis 2 is linear", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")

StringParameter	beamModel (description="null", quantity="m**2")
Columns	
table dataset	(name="2DBeams", description="Beam and spatial characteristics of HIFI mixer IV")
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:m:m:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 1, mixer V")
StringParameter	band (description="Band 1, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
StringParameter	cunit1 (description="Unit axis 1", quantity="m**2")
StringParameter	cunit2 (description="Unit axis 2", quantity="m**2")
StringParameter	ctype1 (description="Coordinate type axis 1 is linear", quantity="m**2")
StringParameter	ctype2 (description="Coordinate type axis 2 is linear", quantity="m**2")
LongParameter	calversion (description="null", quantity="m**2")
StringParameter	name (description="null", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
Columns	
Float1d	frequency (description="Topocentric LO frequency for which this beam product is calculated", quantity="GHz")
Float3d	beam (description="Beam and spatial characteristics of HIFI mixer", quantity="none")
Float1d	hpbw (description="Half-Power Beam Width", quantity="arcsec")
Float1d	cdelt1 (description="Coordinate increment axis 1", quantity="none")

<i>Float1d</i>	cdelt2 (description="Coordinate increment axis 2", quantity="none")
<i>Float1d</i>	crpix1 (description="Reference point axis 1", quantity="none")
<i>Float1d</i>	crpix2 (description="Reference point axis 2", quantity="none")
<i>Float1d</i>	crval1 (description="Reference value axis 1", quantity="none")
<i>Float1d</i>	crval2 (description="Reference value axis 2", quantity="none")
<i>Float1d</i>	etaA (description="Aperture efficiency", quantity="none")
<i>Float1d</i>	etaMb (description="Main-beam efficiency", quantity="none")
<i>Float1d</i>	forwardEff (description="Forward efficiency", quantity="none")
<i>Float1d</i>	thetaS1 (description="Semi-angle first sidelobe", quantity="arcsec")
<i>Float1d</i>	thetaMb (description="Main-beam semi-angle", quantity="arcsec")
<i>Float1d</i>	edgeTaper (description="Edge taper at secondary mirror", quantity="d-B")
<i>Float1d</i>	slLevel (description="Peak sidelobe level", quantity="dB")

2.4. HIFICAL Product - Beam and spatial characteristics of HIFI mixer 2H

<i>product (type="HifiCalibrationProduct", description="Beam and spatial characteristics of HIFI mixer 2H")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:mm:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="null")
StringParameter	name (description="null")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 2, mixer H")
StringParameter	band (description="Band 2, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
StringParameter	cunit1 (description="Unit axis 1", quantity="m**2")

StringParameter	cunit2 (description="Unit axis 2", quantity="m**2")
StringParameter	ctype1 (description="Coordinate type axis 1 is linear", quantity="m**2")
StringParameter	ctype2 (description="Coordinate type axis 2 is linear", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
Columns	
table dataset	(name="2DBeams", description="Beam and spatial characteristics of HIFI mixer 2H")
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:m:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 2, mixer H")
StringParameter	band (description="Band 2, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
StringParameter	cunit1 (description="Unit axis 1", quantity="m**2")
StringParameter	cunit2 (description="Unit axis 2", quantity="m**2")
StringParameter	ctype1 (description="Coordinate type axis 1 is linear", quantity="m**2")
StringParameter	ctype2 (description="Coordinate type axis 2 is linear", quantity="m**2")
LongParameter	calversion (description="null", quantity="m**2")
StringParameter	name (description="null", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")

Columns	
<i>Float1d</i>	frequency (description="Topocentric LO frequency for which this beam product is calculated", quantity="GHz")
<i>Float3d</i>	beam (description="Beam and spatial characteristics of HIFI mixer", quantity="none")
<i>Float1d</i>	hpbw (description="Half-Power Beam Width", quantity="arcsec")
<i>Float1d</i>	cdelt1 (description="Coordinate increment axis 1", quantity="none")
<i>Float1d</i>	cdelt2 (description="Coordinate increment axis 2", quantity="none")
<i>Float1d</i>	crpix1 (description="Reference point axis 1", quantity="none")
<i>Float1d</i>	crpix2 (description="Reference point axis 2", quantity="none")
<i>Float1d</i>	crval1 (description="Reference value axis 1", quantity="none")
<i>Float1d</i>	crval2 (description="Reference value axis 2", quantity="none")
<i>Float1d</i>	etaA (description="Aperture efficiency", quantity="none")
<i>Float1d</i>	etaMb (description="Main-beam efficiency", quantity="none")
<i>Float1d</i>	forwardEff (description="Forward efficiency", quantity="none")
<i>Float1d</i>	thetaS1 (description="Semi-angle first sidelobe", quantity="arcsec")
<i>Float1d</i>	thetaMb (description="Main-beam semi-angle", quantity="arcsec")
<i>Float1d</i>	edgeTaper (description="Edge taper at secondary mirror", quantity="dB")
<i>Float1d</i>	slLevel (description="Peak sidelobe level", quantity="dB")

2.5. HIFICAL Product - Beam and spatial characteristics of HIFI mixer 2V

<i>product (type="HifiCalibrationProduct", description="Beam and spatial characteristics of HIFI mixer 2V")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:mm:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="null")
StringParameter	name (description="null")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")

StringParameter	mixer (description="Band 2, mixer V")
StringParameter	band (description="Band 2, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
StringParameter	cunit1 (description="Unit axis 1", quantity="m**2")
StringParameter	cunit2 (description="Unit axis 2", quantity="m**2")
StringParameter	ctype1 (description="Coordinate type axis 1 is linear", quantity="m**2")
StringParameter	ctype2 (description="Coordinate type axis 2 is linear", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	
<i>table dataset</i>	(name="2DBeams", description="Beam and spatial characteristics of HIFI mixer 2V")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:m:m:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 2, mixer V")
StringParameter	band (description="Band 2, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
StringParameter	cunit1 (description="Unit axis 1", quantity="m**2")
StringParameter	cunit2 (description="Unit axis 2", quantity="m**2")
StringParameter	ctype1 (description="Coordinate type axis 1 is linear", quantity="m**2")

StringParameter	ctype2 (description="Coordinate type axis 2 is linear", quantity="m**2")
LongParameter	calversion (description="null", quantity="m**2")
StringParameter	name (description="null", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	
<i>Float1d</i>	frequency (description="Topocentric LO frequency for which this beam product is calculated", quantity="GHz")
<i>Float3d</i>	beam (description="Beam and spatial characteristics of HIFI mixer", quantity="none")
<i>Float1d</i>	hpbw (description="Half-Power Beam Width", quantity="arcsec")
<i>Float1d</i>	cdelt1 (description="Coordinate increment axis 1", quantity="none")
<i>Float1d</i>	cdelt2 (description="Coordinate increment axis 2", quantity="none")
<i>Float1d</i>	crpix1 (description="Reference point axis 1", quantity="none")
<i>Float1d</i>	crpix2 (description="Reference point axis 2", quantity="none")
<i>Float1d</i>	crval1 (description="Reference value axis 1", quantity="none")
<i>Float1d</i>	crval2 (description="Reference value axis 2", quantity="none")
<i>Float1d</i>	etaA (description="Aperture efficiency", quantity="none")
<i>Float1d</i>	etaMb (description="Main-beam efficiency", quantity="none")
<i>Float1d</i>	forwardEff (description="Forward efficiency", quantity="none")
<i>Float1d</i>	thetaS1 (description="Semi-angle first sidelobe", quantity="arcsec")
<i>Float1d</i>	thetaMb (description="Main-beam semi-angle", quantity="arcsec")
<i>Float1d</i>	edgeTaper (description="Edge taper at secondary mirror", quantity="d-B")
<i>Float1d</i>	slLevel (description="Peak sidelobe level", quantity="dB")

2.6. HIFICAL Product - Beam and spatial characteristics of HIFI mixer 3H

<i>product (type="HifiCalibrationProduct", description="Beam and spatial characteristics of HIFI mixer 3H")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:mm:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")

DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="null")
StringParameter	name (description="null")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 3, mixer H")
StringParameter	band (description="Band 3, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
StringParameter	cunit1 (description="Unit axis 1", quantity="m**2")
StringParameter	cunit2 (description="Unit axis 2", quantity="m**2")
StringParameter	ctype1 (description="Coordinate type axis 1 is linear", quantity="m**2")
StringParameter	ctype2 (description="Coordinate type axis 2 is linear", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	
<i>table dataset</i>	<i>(name="2DBeams", description="Beam and spatial characteristics of HIFI mixer 3H")</i>
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:m:m:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 3, mixer H")
StringParameter	band (description="Band 3, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")

StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
StringParameter	cunit1 (description="Unit axis 1", quantity="m**2")
StringParameter	cunit2 (description="Unit axis 2", quantity="m**2")
StringParameter	ctype1 (description="Coordinate type axis 1 is linear", quantity="m**2")
StringParameter	ctype2 (description="Coordinate type axis 2 is linear", quantity="m**2")
LongParameter	calversion (description="null", quantity="m**2")
StringParameter	name (description="null", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	
<i>Float1d</i>	frequency (description="Topocentric LO frequency for which this beam product is calculated", quantity="GHz")
<i>Float3d</i>	beam (description="Beam and spatial characteristics of HIFI mixer", quantity="none")
<i>Float1d</i>	hpbw (description="Half-Power Beam Width", quantity="arcsec")
<i>Float1d</i>	cdelt1 (description="Coordinate increment axis 1", quantity="none")
<i>Float1d</i>	cdelt2 (description="Coordinate increment axis 2", quantity="none")
<i>Float1d</i>	crpix1 (description="Reference point axis 1", quantity="none")
<i>Float1d</i>	crpix2 (description="Reference point axis 2", quantity="none")
<i>Float1d</i>	crval1 (description="Reference value axis 1", quantity="none")
<i>Float1d</i>	crval2 (description="Reference value axis 2", quantity="none")
<i>Float1d</i>	etaA (description="Aperture efficiency", quantity="none")
<i>Float1d</i>	etaMb (description="Main-beam efficiency", quantity="none")
<i>Float1d</i>	forwardEff (description="Forward efficiency", quantity="none")
<i>Float1d</i>	thetaS1 (description="Semi-angle first sidelobe", quantity="arcsec")
<i>Float1d</i>	thetaMb (description="Main-beam semi-angle", quantity="arcsec")
<i>Float1d</i>	edgeTaper (description="Edge taper at secondary mirror", quantity="dB")
<i>Float1d</i>	slLevel (description="Peak sidelobe level", quantity="dB")

2.7. HIFICAL Product - Beam and spatial characteristics of HIFI mixer 3V

<i>product (type="HifiCalibrationProduct", description="Beam and spatial characteristics of HIFI mixer 3V")</i>	
<i>Metadata</i>	

StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:mm:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="null")
StringParameter	name (description="null")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 3, mixer V")
StringParameter	band (description="Band 3, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
StringParameter	cunit1 (description="Unit axis 1", quantity="m**2")
StringParameter	cunit2 (description="Unit axis 2", quantity="m**2")
StringParameter	ctype1 (description="Coordinate type axis 1 is linear", quantity="m**2")
StringParameter	ctype2 (description="Coordinate type axis 2 is linear", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	
<i>table dataset</i>	<i>(name="2DBeams", description="Beam and spatial characteristics of HIFI mixer 3V")</i>
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:mm:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")

StringParameter	formatVersion (description="Version of product format")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 3, mixer V")
StringParameter	band (description="Band 3, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
StringParameter	cunit1 (description="Unit axis 1", quantity="m**2")
StringParameter	cunit2 (description="Unit axis 2", quantity="m**2")
StringParameter	ctype1 (description="Coordinate type axis 1 is linear", quantity="m**2")
StringParameter	ctype2 (description="Coordinate type axis 2 is linear", quantity="m**2")
LongParameter	calversion (description="null", quantity="m**2")
StringParameter	name (description="null", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	
<i>Float1d</i>	frequency (description="Topocentric LO frequency for which this beam product is calculated", quantity="GHz")
<i>Float3d</i>	beam (description="Beam and spatial characteristics of HIFI mixer", quantity="none")
<i>Float1d</i>	hpbw (description="Half-Power Beam Width", quantity="arcsec")
<i>Float1d</i>	cdelt1 (description="Coordinate increment axis 1", quantity="none")
<i>Float1d</i>	cdelt2 (description="Coordinate increment axis 2", quantity="none")
<i>Float1d</i>	crpix1 (description="Reference point axis 1", quantity="none")
<i>Float1d</i>	crpix2 (description="Reference point axis 2", quantity="none")
<i>Float1d</i>	crval1 (description="Reference value axis 1", quantity="none")
<i>Float1d</i>	crval2 (description="Reference value axis 2", quantity="none")
<i>Float1d</i>	etaA (description="Aperture efficiency", quantity="none")
<i>Float1d</i>	etaMb (description="Main-beam efficiency", quantity="none")
<i>Float1d</i>	forwardEff (description="Forward efficiency", quantity="none")
<i>Float1d</i>	thetaS1 (description="Semi-angle first sidelobe", quantity="arcsec")
<i>Float1d</i>	thetaMb (description="Main-beam semi-angle", quantity="arcsec")
<i>Float1d</i>	edgeTaper (description="Edge taper at secondary mirror", quantity="d-B")
<i>Float1d</i>	slLevel (description="Peak sidelobe level", quantity="dB")

2.8. HIFICAL Product - Beam and spatial characteristics of HIFI mixer 4H

<i>product (type="HifiCalibrationProduct", description="Beam and spatial characteristics of HIFI mixer 4H")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:mm:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="null")
StringParameter	name (description="null")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 4, mixer H")
StringParameter	band (description="Band 4, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
StringParameter	cunit1 (description="Unit axis 1", quantity="m**2")
StringParameter	cunit2 (description="Unit axis 2", quantity="m**2")
StringParameter	ctype1 (description="Coordinate type axis 1 is linear", quantity="m**2")
StringParameter	ctype2 (description="Coordinate type axis 2 is linear", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	
<i>table dataset</i>	<i>(name="2DBeams", description="Beam and spatial characteristics of HIFI mixer 4H")</i>
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")

DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:m:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 4, mixer H")
StringParameter	band (description="Band 4, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
StringParameter	cunit1 (description="Unit axis 1", quantity="m**2")
StringParameter	cunit2 (description="Unit axis 2", quantity="m**2")
StringParameter	ctype1 (description="Coordinate type axis 1 is linear", quantity="m**2")
StringParameter	ctype2 (description="Coordinate type axis 2 is linear", quantity="m**2")
LongParameter	calversion (description="null", quantity="m**2")
StringParameter	name (description="null", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	
<i>Float1d</i>	frequency (description="Topocentric LO frequency for which this beam product is calculated", quantity="GHz")
<i>Float3d</i>	beam (description="Beam and spatial characteristics of HIFI mixer", quantity="none")
<i>Float1d</i>	hpbw (description="Half-Power Beam Width", quantity="arcsec")
<i>Float1d</i>	cdelt1 (description="Coordinate increment axis 1", quantity="none")
<i>Float1d</i>	cdelt2 (description="Coordinate increment axis 2", quantity="none")
<i>Float1d</i>	crpix1 (description="Reference point axis 1", quantity="none")
<i>Float1d</i>	crpix2 (description="Reference point axis 2", quantity="none")
<i>Float1d</i>	crval1 (description="Reference value axis 1", quantity="none")
<i>Float1d</i>	crval2 (description="Reference value axis 2", quantity="none")
<i>Float1d</i>	etaA (description="Aperture efficiency", quantity="none")
<i>Float1d</i>	etaMb (description="Main-beam efficiency", quantity="none")

<i>Float1d</i>	forwardEff (description="Forward efficiency", quantity="none")
<i>Float1d</i>	thetaS1 (description="Semi-angle first sidelobe", quantity="arcsec")
<i>Float1d</i>	thetaMb (description="Main-beam semi-angle", quantity="arcsec")
<i>Float1d</i>	edgeTaper (description="Edge taper at secondary mirror", quantity="dB")
<i>Float1d</i>	slLevel (description="Peak sidelobe level", quantity="dB")

2.9. HIFICAL Product - Beam and spatial characteristics of HIFI mixer 4V

<i>product (type="HifiCalibrationProduct", description="Beam and spatial characteristics of HIFI mixer 4V")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:mm:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="null")
StringParameter	name (description="null")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 4, mixer V")
StringParameter	band (description="Band 4, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
StringParameter	cunit1 (description="Unit axis 1", quantity="m**2")
StringParameter	cunit2 (description="Unit axis 2", quantity="m**2")
StringParameter	ctype1 (description="Coordinate type axis 1 is linear", quantity="m**2")
StringParameter	ctype2 (description="Coordinate type axis 2 is linear", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")

StringParameter	beamModel (description="null", quantity="m**2")
Columns	
table dataset	(name="2DBeams", description="Beam and spatial characteristics of HIFI mixer 4V")
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:m:m:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 4, mixer V")
StringParameter	band (description="Band 4, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
StringParameter	cunit1 (description="Unit axis 1", quantity="m**2")
StringParameter	cunit2 (description="Unit axis 2", quantity="m**2")
StringParameter	ctype1 (description="Coordinate type axis 1 is linear", quantity="m**2")
StringParameter	ctype2 (description="Coordinate type axis 2 is linear", quantity="m**2")
LongParameter	calversion (description="null", quantity="m**2")
StringParameter	name (description="null", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
Columns	
Float1d	frequency (description="Topocentric LO frequency for which this beam product is calculated", quantity="GHz")
Float3d	beam (description="Beam and spatial characteristics of HIFI mixer", quantity="none")
Float1d	hpbw (description="Half-Power Beam Width", quantity="arcsec")
Float1d	cdelt1 (description="Coordinate increment axis 1", quantity="none")

<i>Float1d</i>	cdelt2 (description="Coordinate increment axis 2", quantity="none")
<i>Float1d</i>	crpix1 (description="Reference point axis 1", quantity="none")
<i>Float1d</i>	crpix2 (description="Reference point axis 2", quantity="none")
<i>Float1d</i>	crval1 (description="Reference value axis 1", quantity="none")
<i>Float1d</i>	crval2 (description="Reference value axis 2", quantity="none")
<i>Float1d</i>	etaA (description="Aperture efficiency", quantity="none")
<i>Float1d</i>	etaMb (description="Main-beam efficiency", quantity="none")
<i>Float1d</i>	forwardEff (description="Forward efficiency", quantity="none")
<i>Float1d</i>	thetaS1 (description="Semi-angle first sidelobe", quantity="arcsec")
<i>Float1d</i>	thetaMb (description="Main-beam semi-angle", quantity="arcsec")
<i>Float1d</i>	edgeTaper (description="Edge taper at secondary mirror", quantity="d-B")
<i>Float1d</i>	slLevel (description="Peak sidelobe level", quantity="dB")

2.10. HIFICAL Product - Beam and spatial characteristics of HIFI mixer 5H

<i>product (type="HifiCalibrationProduct", description="Beam and spatial characteristics of HIFI mixer 5H")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:mm:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="null")
StringParameter	name (description="null")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 5, mixer H")
StringParameter	band (description="Band 5, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
StringParameter	cunit1 (description="Unit axis 1", quantity="m**2")

StringParameter	cunit2 (description="Unit axis 2", quantity="m**2")
StringParameter	ctype1 (description="Coordinate type axis 1 is linear", quantity="m**2")
StringParameter	ctype2 (description="Coordinate type axis 2 is linear", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
Columns	
table dataset	(name="2DBeams", description="Beam and spatial characteristics of HIFI mixer 5H")
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:m:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 5, mixer H")
StringParameter	band (description="Band 5, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
StringParameter	cunit1 (description="Unit axis 1", quantity="m**2")
StringParameter	cunit2 (description="Unit axis 2", quantity="m**2")
StringParameter	ctype1 (description="Coordinate type axis 1 is linear", quantity="m**2")
StringParameter	ctype2 (description="Coordinate type axis 2 is linear", quantity="m**2")
LongParameter	calversion (description="null", quantity="m**2")
StringParameter	name (description="null", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")

Columns	
<i>Float1d</i>	frequency (description="Topocentric LO frequency for which this beam product is calculated", quantity="GHz")
<i>Float3d</i>	beam (description="Beam and spatial characteristics of HIFI mixer", quantity="none")
<i>Float1d</i>	hpbw (description="Half-Power Beam Width", quantity="arcsec")
<i>Float1d</i>	cdelt1 (description="Coordinate increment axis 1", quantity="none")
<i>Float1d</i>	cdelt2 (description="Coordinate increment axis 2", quantity="none")
<i>Float1d</i>	crpix1 (description="Reference point axis 1", quantity="none")
<i>Float1d</i>	crpix2 (description="Reference point axis 2", quantity="none")
<i>Float1d</i>	crval1 (description="Reference value axis 1", quantity="none")
<i>Float1d</i>	crval2 (description="Reference value axis 2", quantity="none")
<i>Float1d</i>	etaA (description="Aperture efficiency", quantity="none")
<i>Float1d</i>	etaMb (description="Main-beam efficiency", quantity="none")
<i>Float1d</i>	forwardEff (description="Forward efficiency", quantity="none")
<i>Float1d</i>	thetaS1 (description="Semi-angle first sidelobe", quantity="arcsec")
<i>Float1d</i>	thetaMb (description="Main-beam semi-angle", quantity="arcsec")
<i>Float1d</i>	edgeTaper (description="Edge taper at secondary mirror", quantity="dB")
<i>Float1d</i>	slLevel (description="Peak sidelobe level", quantity="dB")

2.11. HIFICAL Product - Beam and spatial characteristics of HIFI mixer 5V

<i>product (type="HifiCalibrationProduct", description="Beam and spatial characteristics of HIFI mixer 5V")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:mm:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="null")
StringParameter	name (description="null")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")

StringParameter	mixer (description="Band 5, mixer V")
StringParameter	band (description="Band 5, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
StringParameter	cunit1 (description="Unit axis 1", quantity="m**2")
StringParameter	cunit2 (description="Unit axis 2", quantity="m**2")
StringParameter	ctype1 (description="Coordinate type axis 1 is linear", quantity="m**2")
StringParameter	ctype2 (description="Coordinate type axis 2 is linear", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	
<i>table dataset</i>	(name="2DBeams", description="Beam and spatial characteristics of HIFI mixer 5V")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:m:m:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 5, mixer V")
StringParameter	band (description="Band 5, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
StringParameter	cunit1 (description="Unit axis 1", quantity="m**2")
StringParameter	cunit2 (description="Unit axis 2", quantity="m**2")
StringParameter	ctype1 (description="Coordinate type axis 1 is linear", quantity="m**2")

StringParameter	ctype2 (description="Coordinate type axis 2 is linear", quantity="m**2")
LongParameter	calversion (description="null", quantity="m**2")
StringParameter	name (description="null", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	
<i>Float1d</i>	frequency (description="Topocentric LO frequency for which this beam product is calculated", quantity="GHz")
<i>Float3d</i>	beam (description="Beam and spatial characteristics of HIFI mixer", quantity="none")
<i>Float1d</i>	hpbw (description="Half-Power Beam Width", quantity="arcsec")
<i>Float1d</i>	cdelt1 (description="Coordinate increment axis 1", quantity="none")
<i>Float1d</i>	cdelt2 (description="Coordinate increment axis 2", quantity="none")
<i>Float1d</i>	crpix1 (description="Reference point axis 1", quantity="none")
<i>Float1d</i>	crpix2 (description="Reference point axis 2", quantity="none")
<i>Float1d</i>	crval1 (description="Reference value axis 1", quantity="none")
<i>Float1d</i>	crval2 (description="Reference value axis 2", quantity="none")
<i>Float1d</i>	etaA (description="Aperture efficiency", quantity="none")
<i>Float1d</i>	etaMb (description="Main-beam efficiency", quantity="none")
<i>Float1d</i>	forwardEff (description="Forward efficiency", quantity="none")
<i>Float1d</i>	thetaSl (description="Semi-angle first sidelobe", quantity="arcsec")
<i>Float1d</i>	thetaMb (description="Main-beam semi-angle", quantity="arcsec")
<i>Float1d</i>	edgeTaper (description="Edge taper at secondary mirror", quantity="d-B")
<i>Float1d</i>	slLevel (description="Peak sidelobe level", quantity="dB")

2.12. HIFICAL Product - Beam and spatial characteristics of HIFI mixer 6H

<i>product (type="HifiCalibrationProduct", description="Beam and spatial characteristics of HIFI mixer 6H")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:mm:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")

DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="null")
StringParameter	name (description="null")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 6, mixer H")
StringParameter	band (description="Band 6, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
StringParameter	cunit1 (description="Unit axis 1", quantity="m**2")
StringParameter	cunit2 (description="Unit axis 2", quantity="m**2")
StringParameter	ctype1 (description="Coordinate type axis 1 is linear", quantity="m**2")
StringParameter	ctype2 (description="Coordinate type axis 2 is linear", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	
<i>table dataset</i>	<i>(name="2DBeams", description="Beam and spatial characteristics of HIFI mixer 6H")</i>
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:m:m:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 6, mixer H")
StringParameter	band (description="Band 6, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")

StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
StringParameter	cunit1 (description="Unit axis 1", quantity="m**2")
StringParameter	cunit2 (description="Unit axis 2", quantity="m**2")
StringParameter	ctype1 (description="Coordinate type axis 1 is linear", quantity="m**2")
StringParameter	ctype2 (description="Coordinate type axis 2 is linear", quantity="m**2")
LongParameter	calversion (description="null", quantity="m**2")
StringParameter	name (description="null", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	
<i>Float1d</i>	frequency (description="Topocentric LO frequency for which this beam product is calculated", quantity="GHz")
<i>Float3d</i>	beam (description="Beam and spatial characteristics of HIFI mixer", quantity="none")
<i>Float1d</i>	hpbw (description="Half-Power Beam Width", quantity="arcsec")
<i>Float1d</i>	cdelt1 (description="Coordinate increment axis 1", quantity="none")
<i>Float1d</i>	cdelt2 (description="Coordinate increment axis 2", quantity="none")
<i>Float1d</i>	crpix1 (description="Reference point axis 1", quantity="none")
<i>Float1d</i>	crpix2 (description="Reference point axis 2", quantity="none")
<i>Float1d</i>	crval1 (description="Reference value axis 1", quantity="none")
<i>Float1d</i>	crval2 (description="Reference value axis 2", quantity="none")
<i>Float1d</i>	etaA (description="Aperture efficiency", quantity="none")
<i>Float1d</i>	etaMb (description="Main-beam efficiency", quantity="none")
<i>Float1d</i>	forwardEff (description="Forward efficiency", quantity="none")
<i>Float1d</i>	thetaS1 (description="Semi-angle first sidelobe", quantity="arcsec")
<i>Float1d</i>	thetaMb (description="Main-beam semi-angle", quantity="arcsec")
<i>Float1d</i>	edgeTaper (description="Edge taper at secondary mirror", quantity="dB")
<i>Float1d</i>	slLevel (description="Peak sidelobe level", quantity="dB")

2.13. HIFICAL Product - Beam and spatial characteristics of HIFI mixer 6V

<i>product (type="HifiCalibrationProduct", description="Beam and spatial characteristics of HIFI mixer 6V")</i>	
<i>Metadata</i>	

StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:mm:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="null")
StringParameter	name (description="null")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 6, mixer V")
StringParameter	band (description="Band 6, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
StringParameter	cunit1 (description="Unit axis 1", quantity="m**2")
StringParameter	cunit2 (description="Unit axis 2", quantity="m**2")
StringParameter	ctype1 (description="Coordinate type axis 1 is linear", quantity="m**2")
StringParameter	ctype2 (description="Coordinate type axis 2 is linear", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	
<i>table dataset</i>	<i>(name="2DBeams", description="Beam and spatial characteristics of HIFI mixer 6V")</i>
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:mm:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")

StringParameter	formatVersion (description="Version of product format")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 6, mixer V")
StringParameter	band (description="Band 6, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
StringParameter	cunit1 (description="Unit axis 1", quantity="m**2")
StringParameter	cunit2 (description="Unit axis 2", quantity="m**2")
StringParameter	ctype1 (description="Coordinate type axis 1 is linear", quantity="m**2")
StringParameter	ctype2 (description="Coordinate type axis 2 is linear", quantity="m**2")
LongParameter	calversion (description="null", quantity="m**2")
StringParameter	name (description="null", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	
<i>Float1d</i>	frequency (description="Topocentric LO frequency for which this beam product is calculated", quantity="GHz")
<i>Float3d</i>	beam (description="Beam and spatial characteristics of HIFI mixer", quantity="none")
<i>Float1d</i>	hpbw (description="Half-Power Beam Width", quantity="arcsec")
<i>Float1d</i>	cdelt1 (description="Coordinate increment axis 1", quantity="none")
<i>Float1d</i>	cdelt2 (description="Coordinate increment axis 2", quantity="none")
<i>Float1d</i>	crpix1 (description="Reference point axis 1", quantity="none")
<i>Float1d</i>	crpix2 (description="Reference point axis 2", quantity="none")
<i>Float1d</i>	crval1 (description="Reference value axis 1", quantity="none")
<i>Float1d</i>	crval2 (description="Reference value axis 2", quantity="none")
<i>Float1d</i>	etaA (description="Aperture efficiency", quantity="none")
<i>Float1d</i>	etaMb (description="Main-beam efficiency", quantity="none")
<i>Float1d</i>	forwardEff (description="Forward efficiency", quantity="none")
<i>Float1d</i>	thetaS1 (description="Semi-angle first sidelobe", quantity="arcsec")
<i>Float1d</i>	thetaMb (description="Main-beam semi-angle", quantity="arcsec")
<i>Float1d</i>	edgeTaper (description="Edge taper at secondary mirror", quantity="dB")
<i>Float1d</i>	slLevel (description="Peak sidelobe level", quantity="dB")

2.14. HIFICAL Product - Beam and spatial characteristics of HIFI mixer 7H

<i>product (type="HifiCalibrationProduct", description="Beam and spatial characteristics of HIFI mixer 7H")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:mm:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="null")
StringParameter	name (description="null")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 7, mixer H")
StringParameter	band (description="Band 7, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
StringParameter	cunit1 (description="Unit axis 1", quantity="m**2")
StringParameter	cunit2 (description="Unit axis 2", quantity="m**2")
StringParameter	cctype1 (description="Coordinate type axis 1 is linear", quantity="m**2")
StringParameter	cctype2 (description="Coordinate type axis 2 is linear", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	
<i>table dataset</i>	<i>(name="2DBeams", description="Beam and spatial characteristics of HIFI mixer 7H")</i>
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")

DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:m:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 7, mixer H")
StringParameter	band (description="Band 7, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
StringParameter	cunit1 (description="Unit axis 1", quantity="m**2")
StringParameter	cunit2 (description="Unit axis 2", quantity="m**2")
StringParameter	ctype1 (description="Coordinate type axis 1 is linear", quantity="m**2")
StringParameter	ctype2 (description="Coordinate type axis 2 is linear", quantity="m**2")
LongParameter	calversion (description="null", quantity="m**2")
StringParameter	name (description="null", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	
<i>Float1d</i>	frequency (description="Topocentric LO frequency for which this beam product is calculated", quantity="GHz")
<i>Float3d</i>	beam (description="Beam and spatial characteristics of HIFI mixer", quantity="none")
<i>Float1d</i>	hpbw (description="Half-Power Beam Width", quantity="arcsec")
<i>Float1d</i>	cdelt1 (description="Coordinate increment axis 1", quantity="none")
<i>Float1d</i>	cdelt2 (description="Coordinate increment axis 2", quantity="none")
<i>Float1d</i>	crpix1 (description="Reference point axis 1", quantity="none")
<i>Float1d</i>	crpix2 (description="Reference point axis 2", quantity="none")
<i>Float1d</i>	crval1 (description="Reference value axis 1", quantity="none")
<i>Float1d</i>	crval2 (description="Reference value axis 2", quantity="none")
<i>Float1d</i>	etaA (description="Aperture efficiency", quantity="none")
<i>Float1d</i>	etaMb (description="Main-beam efficiency", quantity="none")

<i>Float1d</i>	forwardEff (description="Forward efficiency", quantity="none")
<i>Float1d</i>	thetaS1 (description="Semi-angle first sidelobe", quantity="arcsec")
<i>Float1d</i>	thetaMb (description="Main-beam semi-angle", quantity="arcsec")
<i>Float1d</i>	edgeTaper (description="Edge taper at secondary mirror", quantity="d-B")
<i>Float1d</i>	slLevel (description="Peak sidelobe level", quantity="dB")

2.15. HIFICAL Product - Beam and spatial characteristics of HIFI mixer 7V

<i>product (type="HifiCalibrationProduct", description="Beam and spatial characteristics of HIFI mixer 7V")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:mm:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="null")
StringParameter	name (description="null")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 7, mixer V")
StringParameter	band (description="Band 7, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
StringParameter	cunit1 (description="Unit axis 1", quantity="m**2")
StringParameter	cunit2 (description="Unit axis 2", quantity="m**2")
StringParameter	ctype1 (description="Coordinate type axis 1 is linear", quantity="m**2")
StringParameter	ctype2 (description="Coordinate type axis 2 is linear", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")

StringParameter	beamModel (description="null", quantity="m**2")
Columns	
table dataset	(name="2DBeams", description="Beam and spatial characteristics of HIFI mixer 7V")
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:m:m:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 7, mixer V")
StringParameter	band (description="Band 7, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
StringParameter	cunit1 (description="Unit axis 1", quantity="m**2")
StringParameter	cunit2 (description="Unit axis 2", quantity="m**2")
StringParameter	ctype1 (description="Coordinate type axis 1 is linear", quantity="m**2")
StringParameter	ctype2 (description="Coordinate type axis 2 is linear", quantity="m**2")
LongParameter	calversion (description="null", quantity="m**2")
StringParameter	name (description="null", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
Columns	
Float1d	frequency (description="Topocentric LO frequency for which this beam product is calculated", quantity="GHz")
Float3d	beam (description="Beam and spatial characteristics of HIFI mixer", quantity="none")
Float1d	hpbw (description="Half-Power Beam Width", quantity="arcsec")
Float1d	cdelt1 (description="Coordinate increment axis 1", quantity="none")

<i>Float1d</i>	cdelt2 (description="Coordinate increment axis 2", quantity="none")
<i>Float1d</i>	crpix1 (description="Reference point axis 1", quantity="none")
<i>Float1d</i>	crpix2 (description="Reference point axis 2", quantity="none")
<i>Float1d</i>	crval1 (description="Reference value axis 1", quantity="none")
<i>Float1d</i>	crval2 (description="Reference value axis 2", quantity="none")
<i>Float1d</i>	etaA (description="Aperture efficiency", quantity="none")
<i>Float1d</i>	etaMb (description="Main-beam efficiency", quantity="none")
<i>Float1d</i>	forwardEff (description="Forward efficiency", quantity="none")
<i>Float1d</i>	thetaS1 (description="Semi-angle first sidelobe", quantity="arcsec")
<i>Float1d</i>	thetaMb (description="Main-beam semi-angle", quantity="arcsec")
<i>Float1d</i>	edgeTaper (description="Edge taper at secondary mirror", quantity="d-B")
<i>Float1d</i>	slLevel (description="Peak sidelobe level", quantity="dB")

2.16. HIFICAL Product - Azimuthally Averaged Beam Profile and Encircled Encircled Energy Fraction of HIFI mixer 1H

<i>product (type="HifiCalibrationProduct", description="Azimuthally Averaged Beam Profile and Encircled Encircled Energy Fraction of HIFI mixer 1H")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:mm:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="null")
StringParameter	name (description="null")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 1, mixer H")
StringParameter	band (description="Band 1, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")

DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	
<i>table dataset</i>	(name="AveragedBeams", description="Azimuthally Averaged Beam Profile and Encircled Encircled Energy Fraction of HIFI mixer 1H")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:m:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 1, mixer H")
StringParameter	band (description="Band 1, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
LongParameter	calversion (description="null", quantity="m**2")
StringParameter	name (description="null", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	
<i>Float1d</i>	frequency (description="Topocentric LO frequency for which this beam product is calculated", quantity="GHz")
<i>Float2d</i>	theta (description="Angular distance from center", quantity="arcsec")
<i>Float2d</i>	pa (description="Azimuthally averaged beam", quantity="none")
<i>Float2d</i>	eef (description="Encircled energy fraction", quantity="none")
<i>Float1d</i>	hpbw (description="Half-Power Beam Width", quantity="arcsec")
<i>Float1d</i>	etaA (description="Aperture efficiency", quantity="none")

<i>Float1d</i>	etaMb (description="Main-beam efficiency", quantity="none")
<i>Float1d</i>	forwardEff (description="Forward efficiency", quantity="none")
<i>Float1d</i>	thetaSI (description="Semi-angle first sidelobe", quantity="arcsec")
<i>Float1d</i>	thetaMb (description="Main-beam semi-angle", quantity="arcsec")
<i>Float1d</i>	edgeTaper (description="Edge taper at secondary mirror", quantity="d-B")
<i>Float1d</i>	slLevel (description="Peak sidelobe level", quantity="dB")

2.17. HIFICAL Product - Azimuthally Averaged Beam Profile and Encircled Encircled Energy Fraction of HIFI mixer 1V

<i>product (type="HifiCalibrationProduct", description="Azimuthally Averaged Beam Profile and Encircled Encircled Energy Fraction of HIFI mixer 1V")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:mm:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="null")
StringParameter	name (description="null")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 1, mixer V")
StringParameter	band (description="Band 1, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	

<i>table dataset</i>	<i>(name="AveragedBeams", description="Azimuthally Averaged Beam Profile and Encircled Encircled Energy Fraction of HIFI mixer 1V")</i>	
<i>Metadata</i>		
StringParameter	type (description="Product Type Identification")	
StringParameter	creator (description="site that created the product")	
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:m:ss UT)")	
StringParameter	description (description="null")	
StringParameter	instrument (description="null")	
StringParameter	modelName (description="Model name attached to this product")	
DateParameter	startDate (description="Start date of this product")	
DateParameter	endDate (description="End date of this product")	
StringParameter	formatVersion (description="Version of product format")	
StringParameter	reference (description="null")	
StringParameter	telescope (description="null")	
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")	
StringParameter	mixer (description="Band 1, mixer V")	
StringParameter	band (description="Band 1, LO subband a and b")	
StringParameter	backend (description="Backend used for analysis")	
StringParameter	version (description="Version number of beam fitting procedure")	
StringParameter	softwareConfiguration (description="null")	
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")	
LongParameter	calversion (description="null", quantity="m**2")	
StringParameter	name (description="null", quantity="m**2")	
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")	
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")	
StringParameter	beamModel (description="null", quantity="m**2")	
<i>Columns</i>		
<i>Float1d</i>	frequency (description="Topocentric LO frequency for which this beam product is calculated", quantity="GHz")	
<i>Float2d</i>	theta (description="Angular distance from center", quantity="arcsec")	
<i>Float2d</i>	pa (description="Azimuthally averaged beam", quantity="none")	
<i>Float2d</i>	eef (description="Encircled energy fraction", quantity="none")	
<i>Float1d</i>	hpbw (description="Half-Power Beam Width", quantity="arcsec")	
<i>Float1d</i>	etaA (description="Aperture efficiency", quantity="none")	
<i>Float1d</i>	etaMb (description="Main-beam efficiency", quantity="none")	
<i>Float1d</i>	forwardEff (description="Forward efficiency", quantity="none")	
<i>Float1d</i>	thetaSl (description="Semi-angle first sidelobe", quantity="arcsec")	
<i>Float1d</i>	thetaMb (description="Main-beam semi-angle", quantity="arcsec")	
<i>Float1d</i>	edgeTaper (description="Edge taper at secondary mirror", quantity="d-B")	

				<i>Float1d</i> slLevel (description="Peak sidelobe level", quantity="dB")

2.18. HIFICAL Product - Azimuthally Averaged Beam Profile and Encircled Encircled Energy Fraction of HIFI mixer 2H

<i>product</i> (type="HifiCalibrationProduct", description="Azimuthally Averaged Beam Profile and Encircled Encircled Energy Fraction of HIFI mixer 2H")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:mm:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="null")
StringParameter	name (description="null")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 2, mixer H")
StringParameter	band (description="Band 2, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	
<i>table dataset</i>	(name="AveragedBeams", description="Azimuthally Averaged Beam Profile and Encircled Encircled Energy Fraction of HIFI mixer 2H")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")

DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:m:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 2, mixer H")
StringParameter	band (description="Band 2, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
LongParameter	calversion (description="null", quantity="m**2")
StringParameter	name (description="null", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	
<i>Float1d</i>	frequency (description="Topocentric LO frequency for which this beam product is calculated", quantity="GHz")
<i>Float2d</i>	theta (description="Angular distance from center", quantity="arcsec")
<i>Float2d</i>	pa (description="Azimuthally averaged beam", quantity="none")
<i>Float2d</i>	eef (description="Encircled energy fraction", quantity="none")
<i>Float1d</i>	hpbw (description="Half-Power Beam Width", quantity="arcsec")
<i>Float1d</i>	etaA (description="Aperture efficiency", quantity="none")
<i>Float1d</i>	etaMb (description="Main-beam efficiency", quantity="none")
<i>Float1d</i>	forwardEff (description="Forward efficiency", quantity="none")
<i>Float1d</i>	thetaSl (description="Semi-angle first sidelobe", quantity="arcsec")
<i>Float1d</i>	thetaMb (description="Main-beam semi-angle", quantity="arcsec")
<i>Float1d</i>	edgeTaper (description="Edge taper at secondary mirror", quantity="dB")
<i>Float1d</i>	slLevel (description="Peak sidelobe level", quantity="dB")

2.19. HIFICAL Product - Azimuthally Averaged Beam Profile and Encircled Encircled Energy Fraction of HIFI mixer 2V

<i>product (type="HifiCalibrationProduct", description="Azimuthally Averaged Beam Profile and Encircled Encircled Energy Fraction of HIFI mixer 2V")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:mm:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="null")
StringParameter	name (description="null")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 2, mixer V")
StringParameter	band (description="Band 2, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	
<i>table dataset</i>	<i>(name="AveragedBeams", description="Azimuthally Averaged Beam Profile and Encircled Encircled Energy Fraction of HIFI mixer 2V")</i>
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:mm:ss UT)")
StringParameter	description (description="null")

StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 2, mixer V")
StringParameter	band (description="Band 2, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
LongParameter	calversion (description="null", quantity="m**2")
StringParameter	name (description="null", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	
<i>Float1d</i>	frequency (description="Topocentric LO frequency for which this beam product is calculated", quantity="GHz")
<i>Float2d</i>	theta (description="Angular distance from center", quantity="arcsec")
<i>Float2d</i>	pa (description="Azimuthally averaged beam", quantity="none")
<i>Float2d</i>	eef (description="Encircled energy fraction", quantity="none")
<i>Float1d</i>	hpbw (description="Half-Power Beam Width", quantity="arcsec")
<i>Float1d</i>	etaA (description="Aperture efficiency", quantity="none")
<i>Float1d</i>	etaMb (description="Main-beam efficiency", quantity="none")
<i>Float1d</i>	forwardEff (description="Forward efficiency", quantity="none")
<i>Float1d</i>	thetaSl (description="Semi-angle first sidelobe", quantity="arcsec")
<i>Float1d</i>	thetaMb (description="Main-beam semi-angle", quantity="arcsec")
<i>Float1d</i>	edgeTaper (description="Edge taper at secondary mirror", quantity="d-B")
<i>Float1d</i>	slLevel (description="Peak sidelobe level", quantity="dB")

2.20. HIFICAL Product - Azimuthally Averaged Beam Profile and Encircled Encircled Energy Fraction of HIFI mixer 3H

<i>product (type="HifiCalibrationProduct", description="Azimuthally Averaged Beam Profile and Encircled Encircled Energy Fraction of HIFI mixer 3H")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:mm:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="null")
StringParameter	name (description="null")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 3, mixer H")
StringParameter	band (description="Band 3, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	
<i>table dataset</i>	<i>(name="AveragedBeams", description="Azimuthally Averaged Beam Profile and Encircled Encircled Energy Fraction of HIFI mixer 3H")</i>
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:mm:ss UT)")
StringParameter	description (description="null")

StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 3, mixer H")
StringParameter	band (description="Band 3, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
LongParameter	calversion (description="null", quantity="m**2")
StringParameter	name (description="null", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	
<i>Float1d</i>	frequency (description="Topocentric LO frequency for which this beam product is calculated", quantity="GHz")
<i>Float2d</i>	theta (description="Angular distance from center", quantity="arcsec")
<i>Float2d</i>	pa (description="Azimuthally averaged beam", quantity="none")
<i>Float2d</i>	eef (description="Encircled energy fraction", quantity="none")
<i>Float1d</i>	hpbw (description="Half-Power Beam Width", quantity="arcsec")
<i>Float1d</i>	etaA (description="Aperture efficiency", quantity="none")
<i>Float1d</i>	etaMb (description="Main-beam efficiency", quantity="none")
<i>Float1d</i>	forwardEff (description="Forward efficiency", quantity="none")
<i>Float1d</i>	thetaSl (description="Semi-angle first sidelobe", quantity="arcsec")
<i>Float1d</i>	thetaMb (description="Main-beam semi-angle", quantity="arcsec")
<i>Float1d</i>	edgeTaper (description="Edge taper at secondary mirror", quantity="d-B")
<i>Float1d</i>	slLevel (description="Peak sidelobe level", quantity="dB")

2.21. HIFICAL Product - Azimuthally Averaged Beam Profile and Encircled Encircled Energy Fraction of HIFI mixer 3V

<i>product (type="HifiCalibrationProduct", description="Azimuthally Averaged Beam Profile and Encircled Encircled Energy Fraction of HIFI mixer 3V")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:mm:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="null")
StringParameter	name (description="null")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 3, mixer V")
StringParameter	band (description="Band 3, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	
<i>table dataset</i>	<i>(name="AveragedBeams", description="Azimuthally Averaged Beam Profile and Encircled Encircled Energy Fraction of HIFI mixer 3V")</i>
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:mm:ss UT)")
StringParameter	description (description="null")

StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 3, mixer V")
StringParameter	band (description="Band 3, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
LongParameter	calversion (description="null", quantity="m**2")
StringParameter	name (description="null", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	
<i>Float1d</i>	frequency (description="Topocentric LO frequency for which this beam product is calculated", quantity="GHz")
<i>Float2d</i>	theta (description="Angular distance from center", quantity="arcsec")
<i>Float2d</i>	pa (description="Azimuthally averaged beam", quantity="none")
<i>Float2d</i>	eef (description="Encircled energy fraction", quantity="none")
<i>Float1d</i>	hpbw (description="Half-Power Beam Width", quantity="arcsec")
<i>Float1d</i>	etaA (description="Aperture efficiency", quantity="none")
<i>Float1d</i>	etaMb (description="Main-beam efficiency", quantity="none")
<i>Float1d</i>	forwardEff (description="Forward efficiency", quantity="none")
<i>Float1d</i>	thetaSl (description="Semi-angle first sidelobe", quantity="arcsec")
<i>Float1d</i>	thetaMb (description="Main-beam semi-angle", quantity="arcsec")
<i>Float1d</i>	edgeTaper (description="Edge taper at secondary mirror", quantity="d-B")
<i>Float1d</i>	slLevel (description="Peak sidelobe level", quantity="dB")

2.22. HIFICAL Product - Azimuthally Averaged Beam Profile and Encircled Encircled Energy Fraction of HIFI mixer 4H

<i>product (type="HifiCalibrationProduct", description="Azimuthally Averaged Beam Profile and Encircled Encircled Energy Fraction of HIFI mixer 4H")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:mm:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="null")
StringParameter	name (description="null")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 4, mixer H")
StringParameter	band (description="Band 4, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	
<i>table dataset</i>	<i>(name="AveragedBeams", description="Azimuthally Averaged Beam Profile and Encircled Encircled Energy Fraction of HIFI mixer 4H")</i>
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:mm:ss UT)")
StringParameter	description (description="null")

StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 4, mixer H")
StringParameter	band (description="Band 4, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
LongParameter	calversion (description="null", quantity="m**2")
StringParameter	name (description="null", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	
<i>Float1d</i>	frequency (description="Topocentric LO frequency for which this beam product is calculated", quantity="GHz")
<i>Float2d</i>	theta (description="Angular distance from center", quantity="arcsec")
<i>Float2d</i>	pa (description="Azimuthally averaged beam", quantity="none")
<i>Float2d</i>	eef (description="Encircled energy fraction", quantity="none")
<i>Float1d</i>	hpbw (description="Half-Power Beam Width", quantity="arcsec")
<i>Float1d</i>	etaA (description="Aperture efficiency", quantity="none")
<i>Float1d</i>	etaMb (description="Main-beam efficiency", quantity="none")
<i>Float1d</i>	forwardEff (description="Forward efficiency", quantity="none")
<i>Float1d</i>	thetaSl (description="Semi-angle first sidelobe", quantity="arcsec")
<i>Float1d</i>	thetaMb (description="Main-beam semi-angle", quantity="arcsec")
<i>Float1d</i>	edgeTaper (description="Edge taper at secondary mirror", quantity="d-B")
<i>Float1d</i>	slLevel (description="Peak sidelobe level", quantity="dB")

2.23. HIFICAL Product - Azimuthally Averaged Beam Profile and Encircled Encircled Energy Fraction of HIFI mixer 4V

<i>product (type="HifiCalibrationProduct", description="Azimuthally Averaged Beam Profile and Encircled Encircled Energy Fraction of HIFI mixer 4V")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:mm:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="null")
StringParameter	name (description="null")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 4, mixer V")
StringParameter	band (description="Band 4, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	
<i>table dataset</i>	<i>(name="AveragedBeams", description="Azimuthally Averaged Beam Profile and Encircled Encircled Energy Fraction of HIFI mixer 4V")</i>
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:mm:ss UT)")
StringParameter	description (description="null")

StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 4, mixer V")
StringParameter	band (description="Band 4, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
LongParameter	calversion (description="null", quantity="m**2")
StringParameter	name (description="null", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	
<i>Float1d</i>	frequency (description="Topocentric LO frequency for which this beam product is calculated", quantity="GHz")
<i>Float2d</i>	theta (description="Angular distance from center", quantity="arcsec")
<i>Float2d</i>	pa (description="Azimuthally averaged beam", quantity="none")
<i>Float2d</i>	eef (description="Encircled energy fraction", quantity="none")
<i>Float1d</i>	hpbw (description="Half-Power Beam Width", quantity="arcsec")
<i>Float1d</i>	etaA (description="Aperture efficiency", quantity="none")
<i>Float1d</i>	etaMb (description="Main-beam efficiency", quantity="none")
<i>Float1d</i>	forwardEff (description="Forward efficiency", quantity="none")
<i>Float1d</i>	thetaSl (description="Semi-angle first sidelobe", quantity="arcsec")
<i>Float1d</i>	thetaMb (description="Main-beam semi-angle", quantity="arcsec")
<i>Float1d</i>	edgeTaper (description="Edge taper at secondary mirror", quantity="d-B")
<i>Float1d</i>	slLevel (description="Peak sidelobe level", quantity="dB")

2.24. HIFICAL Product - Azimuthally Averaged Beam Profile and Encircled Encircled Energy Fraction of HIFI mixer 5H

<i>product (type="HifiCalibrationProduct", description="Azimuthally Averaged Beam Profile and Encircled Encircled Energy Fraction of HIFI mixer 5H")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:mm:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="null")
StringParameter	name (description="null")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 5, mixer H")
StringParameter	band (description="Band 5, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	
<i>table dataset</i>	<i>(name="AveragedBeams", description="Azimuthally Averaged Beam Profile and Encircled Encircled Energy Fraction of HIFI mixer 5H")</i>
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:mm:ss UT)")
StringParameter	description (description="null")

StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 5, mixer H")
StringParameter	band (description="Band 5, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
LongParameter	calversion (description="null", quantity="m**2")
StringParameter	name (description="null", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	
<i>Float1d</i>	frequency (description="Topocentric LO frequency for which this beam product is calculated", quantity="GHz")
<i>Float2d</i>	theta (description="Angular distance from center", quantity="arcsec")
<i>Float2d</i>	pa (description="Azimuthally averaged beam", quantity="none")
<i>Float2d</i>	eef (description="Encircled energy fraction", quantity="none")
<i>Float1d</i>	hpbw (description="Half-Power Beam Width", quantity="arcsec")
<i>Float1d</i>	etaA (description="Aperture efficiency", quantity="none")
<i>Float1d</i>	etaMb (description="Main-beam efficiency", quantity="none")
<i>Float1d</i>	forwardEff (description="Forward efficiency", quantity="none")
<i>Float1d</i>	thetaSl (description="Semi-angle first sidelobe", quantity="arcsec")
<i>Float1d</i>	thetaMb (description="Main-beam semi-angle", quantity="arcsec")
<i>Float1d</i>	edgeTaper (description="Edge taper at secondary mirror", quantity="d-B")
<i>Float1d</i>	slLevel (description="Peak sidelobe level", quantity="dB")

2.25. HIFICAL Product - Azimuthally Averaged Beam Profile and Encircled Encircled Energy Fraction of HIFI mixer 5V

<i>product (type="HifiCalibrationProduct", description="Azimuthally Averaged Beam Profile and Encircled Encircled Energy Fraction of HIFI mixer 5V")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:mm:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="null")
StringParameter	name (description="null")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 5, mixer V")
StringParameter	band (description="Band 5, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	
<i>table dataset</i>	<i>(name="AveragedBeams", description="Azimuthally Averaged Beam Profile and Encircled Encircled Energy Fraction of HIFI mixer 5V")</i>
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:mm:ss UT)")
StringParameter	description (description="null")

StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 5, mixer V")
StringParameter	band (description="Band 5, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
LongParameter	calversion (description="null", quantity="m**2")
StringParameter	name (description="null", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	
<i>Float1d</i>	frequency (description="Topocentric LO frequency for which this beam product is calculated", quantity="GHz")
<i>Float2d</i>	theta (description="Angular distance from center", quantity="arcsec")
<i>Float2d</i>	pa (description="Azimuthally averaged beam", quantity="none")
<i>Float2d</i>	eef (description="Encircled energy fraction", quantity="none")
<i>Float1d</i>	hpbw (description="Half-Power Beam Width", quantity="arcsec")
<i>Float1d</i>	etaA (description="Aperture efficiency", quantity="none")
<i>Float1d</i>	etaMb (description="Main-beam efficiency", quantity="none")
<i>Float1d</i>	forwardEff (description="Forward efficiency", quantity="none")
<i>Float1d</i>	thetaSl (description="Semi-angle first sidelobe", quantity="arcsec")
<i>Float1d</i>	thetaMb (description="Main-beam semi-angle", quantity="arcsec")
<i>Float1d</i>	edgeTaper (description="Edge taper at secondary mirror", quantity="d-B")
<i>Float1d</i>	slLevel (description="Peak sidelobe level", quantity="dB")

2.26. HIFICAL Product - Azimuthally Averaged Beam Profile and Encircled Encircled Energy Fraction of HIFI mixer 6H

<i>product (type="HifiCalibrationProduct", description="Azimuthally Averaged Beam Profile and Encircled Encircled Energy Fraction of HIFI mixer 6H")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:mm:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="null")
StringParameter	name (description="null")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 6, mixer H")
StringParameter	band (description="Band 6, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	
<i>table dataset</i>	<i>(name="AveragedBeams", description="Azimuthally Averaged Beam Profile and Encircled Encircled Energy Fraction of HIFI mixer 6H")</i>
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:mm:ss UT)")
StringParameter	description (description="null")

StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 6, mixer H")
StringParameter	band (description="Band 6, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
LongParameter	calversion (description="null", quantity="m**2")
StringParameter	name (description="null", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	
<i>Float1d</i>	frequency (description="Topocentric LO frequency for which this beam product is calculated", quantity="GHz")
<i>Float2d</i>	theta (description="Angular distance from center", quantity="arcsec")
<i>Float2d</i>	pa (description="Azimuthally averaged beam", quantity="none")
<i>Float2d</i>	eef (description="Encircled energy fraction", quantity="none")
<i>Float1d</i>	hpbw (description="Half-Power Beam Width", quantity="arcsec")
<i>Float1d</i>	etaA (description="Aperture efficiency", quantity="none")
<i>Float1d</i>	etaMb (description="Main-beam efficiency", quantity="none")
<i>Float1d</i>	forwardEff (description="Forward efficiency", quantity="none")
<i>Float1d</i>	thetaSl (description="Semi-angle first sidelobe", quantity="arcsec")
<i>Float1d</i>	thetaMb (description="Main-beam semi-angle", quantity="arcsec")
<i>Float1d</i>	edgeTaper (description="Edge taper at secondary mirror", quantity="d-B")
<i>Float1d</i>	slLevel (description="Peak sidelobe level", quantity="dB")

2.27. HIFICAL Product - Azimuthally Averaged Beam Profile and Encircled Encircled Energy Fraction of HIFI mixer 6V

<i>product (type="HifiCalibrationProduct", description="Azimuthally Averaged Beam Profile and Encircled Encircled Energy Fraction of HIFI mixer 6V")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:mm:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="null")
StringParameter	name (description="null")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 6, mixer V")
StringParameter	band (description="Band 6, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	
<i>table dataset</i>	<i>(name="AveragedBeams", description="Azimuthally Averaged Beam Profile and Encircled Encircled Energy Fraction of HIFI mixer 6V")</i>
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:mm:ss UT)")
StringParameter	description (description="null")

StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 6, mixer V")
StringParameter	band (description="Band 6, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
LongParameter	calversion (description="null", quantity="m**2")
StringParameter	name (description="null", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	
<i>Float1d</i>	frequency (description="Topocentric LO frequency for which this beam product is calculated", quantity="GHz")
<i>Float2d</i>	theta (description="Angular distance from center", quantity="arcsec")
<i>Float2d</i>	pa (description="Azimuthally averaged beam", quantity="none")
<i>Float2d</i>	eef (description="Encircled energy fraction", quantity="none")
<i>Float1d</i>	hpbw (description="Half-Power Beam Width", quantity="arcsec")
<i>Float1d</i>	etaA (description="Aperture efficiency", quantity="none")
<i>Float1d</i>	etaMb (description="Main-beam efficiency", quantity="none")
<i>Float1d</i>	forwardEff (description="Forward efficiency", quantity="none")
<i>Float1d</i>	thetaSl (description="Semi-angle first sidelobe", quantity="arcsec")
<i>Float1d</i>	thetaMb (description="Main-beam semi-angle", quantity="arcsec")
<i>Float1d</i>	edgeTaper (description="Edge taper at secondary mirror", quantity="d-B")
<i>Float1d</i>	slLevel (description="Peak sidelobe level", quantity="dB")

2.28. HIFICAL Product - Azimuthally Averaged Beam Profile and Encircled Encircled Energy Fraction of HIFI mixer 7H

<i>product (type="HifiCalibrationProduct", description="Azimuthally Averaged Beam Profile and Encircled Encircled Energy Fraction of HIFI mixer 7H")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:mm:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="null")
StringParameter	name (description="null")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 7, mixer H")
StringParameter	band (description="Band 7, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	
<i>table dataset</i>	<i>(name="AveragedBeams", description="Azimuthally Averaged Beam Profile and Encircled Encircled Energy Fraction of HIFI mixer 7H")</i>
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:mm:ss UT)")
StringParameter	description (description="null")

StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 7, mixer H")
StringParameter	band (description="Band 7, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
LongParameter	calversion (description="null", quantity="m**2")
StringParameter	name (description="null", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	
<i>Float1d</i>	frequency (description="Topocentric LO frequency for which this beam product is calculated", quantity="GHz")
<i>Float2d</i>	theta (description="Angular distance from center", quantity="arcsec")
<i>Float2d</i>	pa (description="Azimuthally averaged beam", quantity="none")
<i>Float2d</i>	eef (description="Encircled energy fraction", quantity="none")
<i>Float1d</i>	hpbw (description="Half-Power Beam Width", quantity="arcsec")
<i>Float1d</i>	etaA (description="Aperture efficiency", quantity="none")
<i>Float1d</i>	etaMb (description="Main-beam efficiency", quantity="none")
<i>Float1d</i>	forwardEff (description="Forward efficiency", quantity="none")
<i>Float1d</i>	thetaSl (description="Semi-angle first sidelobe", quantity="arcsec")
<i>Float1d</i>	thetaMb (description="Main-beam semi-angle", quantity="arcsec")
<i>Float1d</i>	edgeTaper (description="Edge taper at secondary mirror", quantity="d-B")
<i>Float1d</i>	slLevel (description="Peak sidelobe level", quantity="dB")

2.29. HIFICAL Product - Azimuthally Averaged Beam Profile and Encircled Encircled Energy Fraction of HIFI mixer 7V

<i>product (type="HifiCalibrationProduct", description="Azimuthally Averaged Beam Profile and Encircled Encircled Energy Fraction of HIFI mixer 7V")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:mm:ss UT)")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="null")
StringParameter	name (description="null")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 7, mixer V")
StringParameter	band (description="Band 7, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
<i>Columns</i>	
<i>table dataset</i>	<i>(name="AveragedBeams", description="Azimuthally Averaged Beam Profile and Encircled Encircled Energy Fraction of HIFI mixer 7V")</i>
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="site that created the product")
DateParameter	creationDate (description="file creation date (YYYY-MM-DDThh:mm:ss UT)")
StringParameter	description (description="null")

StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	reference (description="null")
StringParameter	telescope (description="null")
StringParameter	aperture (description="See HIFI-ICC/2008-180, Oct 2008, Issue 1.0")
StringParameter	mixer (description="Band 7, mixer V")
StringParameter	band (description="Band 7, LO subband a and b")
StringParameter	backend (description="Backend used for analysis")
StringParameter	version (description="Version number of beam fitting procedure")
StringParameter	softwareConfiguration (description="null")
DoubleParameter	aGeom (description="Geometrical telescope area", quantity="m**2")
LongParameter	calversion (description="null", quantity="m**2")
StringParameter	name (description="null", quantity="m**2")
StringParameter	doublySubtracted (description="Possible values: DBS, ON, OFF", quantity="m**2")
StringParameter	spatialSampling (description="D / 170 sampling, 16 * D rectangular window", quantity="m**2")
StringParameter	beamModel (description="null", quantity="m**2")
Columns	
Float1d	frequency (description="Topocentric LO frequency for which this beam product is calculated", quantity="GHz")
Float2d	theta (description="Angular distance from center", quantity="arcsec")
Float2d	pa (description="Azimuthally averaged beam", quantity="none")
Float2d	eef (description="Encircled energy fraction", quantity="none")
Float1d	hpbw (description="Half-Power Beam Width", quantity="arcsec")
Float1d	etaA (description="Aperture efficiency", quantity="none")
Float1d	etaMb (description="Main-beam efficiency", quantity="none")
Float1d	forwardEff (description="Forward efficiency", quantity="none")
Float1d	thetaSl (description="Semi-angle first sidelobe", quantity="arcsec")
Float1d	thetaMb (description="Main-beam semi-angle", quantity="arcsec")
Float1d	edgeTaper (description="Edge taper at secondary mirror", quantity="d-B")
Float1d	slLevel (description="Peak sidelobe level", quantity="dB")

2.30. HIFICAL Product - HIFI Calibration Product

<i>product (type="HifiCalibrationProduct", description="HIFI Calibration Product")</i>	
Metadata	

StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this product")
Columns	
table dataset	(name="Spurs", description="HIFI Calibration Product")
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation data of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
DateParameter	DATE_OBS (description="Start date of this product")
Columns	
StringId	band (description="null", quantity="none")
DoubleId	frequency (description="null", quantity="MHz")
DoubleId	lo_width (description="null", quantity="MHz")
StringId	problem (description="null", quantity="none")
StringId	affected_subbands (description="null", quantity="none")

2.31. HIFICAL Product - HIFI Calibration Product

<i>product (type="HifiCalibrationProduct", description="HIFI Calibration Product")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")

StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this product")
Columns	
table dataset	(name="Spurs", description="HIFI Calibration Product")
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	DATE_OBS (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
Columns	
StringId	band (description="null", quantity="none")
DoubleId	frequency (description="null", quantity="MHz")
DoubleId	lo_width (description="null", quantity="MHz")
StringId	problem (description="null", quantity="none")
StringId	affected_subbands (description="null", quantity="none")

2.32. HIFICAL Product - HIFI Generic Pipeline Product

product (type="GenericPipelineProduct", description="HIFI Generic Pipeline Product")	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")

DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
StringParameter	frequencyType (description="null")
<i>Columns</i>	
<i>table dataset</i>	(name="apertureEfficiency-H", description="HIFI Generic Pipeline Product")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
StringParameter	frequencyType (description="null")
<i>Columns</i>	
<i>StringId</i>	band (description="band", quantity="none")
<i>DoubleId</i>	frequency (description="Frequency", quantity="GHz")
<i>DoubleId</i>	eta_A (description="Aperture efficiency", quantity="none")

2.33. HIFICAL Product - HIFI Generic Pipeline Product

<i>product (type="GenericPipelineProduct", description="HIFI Generic Pipeline Product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product", quantity="null")

StringParameter	name (description="Name of this Product", quantity="null")
StringParameter	frequencyType (description="null", quantity="null")
Columns	
table dataset	(name="apertureEfficiency2dBeams-H", description="HIFI Generic Pipeline Product")
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product", quantity="null")
StringParameter	name (description="Name of this Product", quantity="null")
StringParameter	frequencyType (description="null", quantity="null")
Columns	
StringId	band (description="band", quantity="none")
DoubleId	frequency (description="Frequency", quantity="GHz")
DoubleId	eta_A (description="Aperture efficiency", quantity="none")

2.34. HIFICAL Product - HIFI Generic Pipeline Product

<i>product (type="GenericPipelineProduct", description="HIFI Generic Pipeline Product")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
StringParameter	frequencyType (description="null")
Columns	

<i>table dataset</i>	<i>(name="apertureEfficiency-V", description="HIFI Generic Pipeline Product")</i>		
<i>Metadata</i>			
StringParameter	type	(description="Product Type Identification")	
StringParameter	creator	(description="Generator of this product")	
DateParameter	creationDate	(description="Creation date of this product")	
StringParameter	description	(description="Name of this product")	
StringParameter	instrument	(description="Instrument attached to this product")	
StringParameter	modelName	(description="Model name attached to this product")	
DateParameter	startDate	(description="null")	
DateParameter	endDate	(description="null")	
StringParameter	formatVersion	(description="Version of product format")	
LongParameter	calversion	(description="Version of this product")	
StringParameter	name	(description="Name of this Product")	
StringParameter	frequencyType	(description="null")	
<i>Columns</i>			
<i>StringId</i>	band	(description="band", quantity="none")	
<i>DoubleId</i>	frequency	(description="Frequency", quantity="GHz")	
<i>DoubleId</i>	eta_A	(description="Aperture efficiency", quantity="none")	

2.35. HIFICAL Product - HIFI Generic Pipeline Product

<i>product</i>	<i>(type="GenericPipelineProduct", description="HIFI Generic Pipeline Product")</i>		
<i>Metadata</i>			
StringParameter	type	(description="Product Type Identification")	
StringParameter	creator	(description="Generator of this product")	
DateParameter	creationDate	(description="Creation date of this product")	
StringParameter	description	(description="Name of this product")	
StringParameter	instrument	(description="Instrument attached to this product")	
StringParameter	modelName	(description="Model name attached to this product")	
DateParameter	startDate	(description="null")	
DateParameter	endDate	(description="null")	
StringParameter	formatVersion	(description="Version of product format")	
LongParameter	calversion	(description="Version of this product", quantity="null")	
StringParameter	name	(description="Name of this Product", quantity="null")	
StringParameter	frequencyType	(description="null", quantity="null")	
<i>Columns</i>			
<i>table dataset</i>	<i>(name="apertureEfficiency2dBeams-V", description="HIFI Generic Pipeline Product")</i>		
<i>Metadata</i>			
StringParameter	type	(description="Product Type Identification")	

StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product", quantity="null")
StringParameter	name (description="Name of this Product", quantity="null")
StringParameter	frequencyType (description="null", quantity="null")
<i>Columns</i>	
<i>StringId</i>	band (description="band", quantity="none")
<i>DoubleId</i>	frequency (description="Frequency", quantity="GHz")
<i>DoubleId</i>	eta_A (description="Aperture efficiency", quantity="none")

2.36. HIFICAL Product - HIFI Generic Pipeline Product

<i>product (type="GenericPipelineProduct", description="HIFI Generic Pipeline Product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
StringParameter	frequencyType (description="null")
<i>Columns</i>	
<i>table dataset</i>	<i>(name="beamEfficiency-H", description="HIFI Generic Pipeline Product")</i>
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")

StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
StringParameter	frequencyType (description="null")
<i>Columns</i>	
<i>StringId</i>	band (description="band", quantity="none")
<i>DoubleId</i>	frequency (description="Frequency", quantity="GHz")
<i>DoubleId</i>	eta_mb (description="Main beam efficiency", quantity="none")

2.37. HIFICAL Product - HIFI Generic Pipeline Product

<i>product (type="GenericPipelineProduct", description="HIFI Generic Pipeline Product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product", quantity="null")
StringParameter	name (description="Name of this Product", quantity="null")
StringParameter	frequencyType (description="null", quantity="null")
<i>Columns</i>	
<i>table dataset (name="beamEfficiency2dBeams-H", description="HIFI Generic Pipeline Product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")

LongParameter	calversion (description="Version of this product", quantity="null")
StringParameter	name (description="Name of this Product", quantity="null")
StringParameter	frequencyType (description="null", quantity="null")
Columns	
StringId	band (description="band", quantity="none")
DoubleId	frequency (description="Frequency", quantity="GHz")
DoubleId	eta_mb (description="Main beam efficiency", quantity="none")

2.38. HIFICAL Product - HIFI Generic Pipeline Product

<i>product (type="GenericPipelineProduct", description="HIFI Generic Pipeline Product")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
StringParameter	frequencyType (description="null")
Columns	
<i>table dataset (name="beamEfficiency-V", description="HIFI Generic Pipeline Product")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
StringParameter	frequencyType (description="null")
Columns	

	<i>StringId</i>	band (description="band", quantity="none")
	<i>DoubleId</i>	frequency (description="Frequency", quantity="GHz")
	<i>DoubleId</i>	eta_mb (description="Main beam efficiency", quantity="none")

2.39. HIFICAL Product - HIFI Generic Pipeline Product

<i>product</i> (type="GenericPipelineProduct", description="HIFI Generic Pipeline Product")		
<i>Metadata</i>		
StringParameter	type (description="Product Type Identification")	
StringParameter	creator (description="Generator of this product")	
DateParameter	creationDate (description="Creation date of this product")	
StringParameter	description (description="Name of this product")	
StringParameter	instrument (description="Instrument attached to this product")	
StringParameter	modelName (description="Model name attached to this product")	
DateParameter	startDate (description="null")	
DateParameter	endDate (description="null")	
StringParameter	formatVersion (description="Version of product format")	
LongParameter	calversion (description="Version of this product", quantity="null")	
StringParameter	name (description="Name of this Product", quantity="null")	
StringParameter	frequencyType (description="null", quantity="null")	
<i>Columns</i>		
<i>table dataset</i> (name="beamEfficiency2dBeams-V", description="HIFI Generic Pipeline Product")		
<i>Metadata</i>		
StringParameter	type (description="Product Type Identification")	
StringParameter	creator (description="Generator of this product")	
DateParameter	creationDate (description="Creation date of this product")	
StringParameter	description (description="Name of this product")	
StringParameter	instrument (description="Instrument attached to this product")	
StringParameter	modelName (description="Model name attached to this product")	
DateParameter	startDate (description="null")	
DateParameter	endDate (description="null")	
StringParameter	formatVersion (description="Version of product format")	
LongParameter	calversion (description="Version of this product", quantity="null")	
StringParameter	name (description="Name of this Product", quantity="null")	
StringParameter	frequencyType (description="null", quantity="null")	
<i>Columns</i>		
	<i>StringId</i>	band (description="band", quantity="none")
	<i>DoubleId</i>	frequency (description="Frequency", quantity="GHz")
	<i>DoubleId</i>	eta_mb (description="Main beam efficiency", quantity="none")

2.40. HIFICAL Product - HIFI Generic Pipeline Product

<i>product</i> (type="GenericPipelineProduct", description="HIFI Generic Pipeline Product")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
StringParameter	frequencyType (description="null")
<i>Columns</i>	
<i>table dataset</i>	(name="beamWidth-H", description="HIFI Generic Pipeline Product")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
StringParameter	frequencyType (description="null")
<i>Columns</i>	
<i>StringId</i>	band (description="band", quantity="none")
<i>DoubleId</i>	frequency (description="Frequency", quantity="GHz")
<i>DoubleId</i>	HPBW (description="Half power beam width", quantity="arcsec")

2.41. HIFICAL Product - HIFI Generic Pipeline Product

<i>product (type="GenericPipelineProduct", description="HIFI Generic Pipeline Product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product", quantity="null")
StringParameter	name (description="Name of this Product", quantity="null")
StringParameter	frequencyType (description="null", quantity="null")
<i>Columns</i>	
<i>table dataset</i>	<i>(name="beamWidth2dBeams-H", description="HIFI Generic Pipeline Product")</i>
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product", quantity="null")
StringParameter	name (description="Name of this Product", quantity="null")
StringParameter	frequencyType (description="null", quantity="null")
<i>Columns</i>	
<i>StringId</i>	band (description="band", quantity="none")
<i>DoubleId</i>	frequency (description="Frequency", quantity="GHz")
<i>DoubleId</i>	HPBW (description="Half power beam width", quantity="arcsec")

2.42. HIFICAL Product - HIFI Generic Pipeline Product

<i>product</i> (type="GenericPipelineProduct", description="HIFI Generic Pipeline Product")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
StringParameter	frequencyType (description="null")
<i>Columns</i>	
<i>table dataset</i>	(name="beamWidth-V", description="HIFI Generic Pipeline Product")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
StringParameter	frequencyType (description="null")
<i>Columns</i>	
<i>StringId</i>	band (description="band", quantity="none")
<i>DoubleId</i>	frequency (description="Frequency", quantity="GHz")
<i>DoubleId</i>	HPBW (description="Half power beam width", quantity="arcsec")

2.43. HIFICAL Product - HIFI Generic Pipeline Product

<i>product</i> (type="GenericPipelineProduct", description="HIFI Generic Pipeline Product")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product", quantity="null")
StringParameter	name (description="Name of this Product", quantity="null")
StringParameter	frequencyType (description="null", quantity="null")
<i>Columns</i>	
<i>table dataset</i>	(name="beamWidth2dBeams-V", description="HIFI Generic Pipeline Product")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product", quantity="null")
StringParameter	name (description="Name of this Product", quantity="null")
StringParameter	frequencyType (description="null", quantity="null")
<i>Columns</i>	
<i>StringId</i>	band (description="band", quantity="none")
<i>DoubleId</i>	frequency (description="Frequency", quantity="GHz")
<i>DoubleId</i>	HPBW (description="Half power beam width", quantity="arcsec")

2.44. HIFICAL Product - HIFI Chopper Positions Product

<i>product (type="ChopperPositionsProduct", description="HIFI Chopper Positions Product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
<i>Columns</i>	
<i>table dataset</i>	<i>(name="ChopperPositions-Prime", description="HIFI Chopper Positions Product")</i>
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	DATE_OBS (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
<i>Columns</i>	
<i>Int1d</i>	band (description="null", quantity="none")
<i>Double1d</i>	cold_lower (description="null", quantity="none")
<i>Double1d</i>	cold (description="null", quantity="none")
<i>Double1d</i>	cold_upper (description="null", quantity="none")
<i>Double1d</i>	hot_lower (description="null", quantity="none")
<i>Double1d</i>	hot (description="null", quantity="none")
<i>Double1d</i>	hot_upper (description="null", quantity="none")
<i>Double1d</i>	center_lower (description="null", quantity="none")
<i>Double1d</i>	center (description="null", quantity="none")

<i>DoubleId</i>	center_upper (description="null", quantity="none")
<i>DoubleId</i>	right_lower (description="null", quantity="none")
<i>DoubleId</i>	right (description="null", quantity="none")
<i>DoubleId</i>	right_upper (description="null", quantity="none")
<i>DoubleId</i>	left_lower (description="null", quantity="none")
<i>DoubleId</i>	left (description="null", quantity="none")
<i>DoubleId</i>	left_upper (description="null", quantity="none")

2.45. HIFICAL Product - HIFI Chopper Positions Product

<i>product</i> (type="ChopperPositionsProduct", description="HIFI Chopper Positions Product")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
<i>Columns</i>	
<i>table dataset</i>	(name="ChopperPositions-Redundant", description="HIFI Chopper Positions Product")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	DATE_OBS (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
<i>Columns</i>	

<i>IntId</i>	band (description="null", quantity="none")
<i>DoubleId</i>	cold_lower (description="null", quantity="none")
<i>DoubleId</i>	cold (description="null", quantity="none")
<i>DoubleId</i>	cold_upper (description="null", quantity="none")
<i>DoubleId</i>	hot_lower (description="null", quantity="none")
<i>DoubleId</i>	hot (description="null", quantity="none")
<i>DoubleId</i>	hot_upper (description="null", quantity="none")
<i>DoubleId</i>	center_lower (description="null", quantity="none")
<i>DoubleId</i>	center (description="null", quantity="none")
<i>DoubleId</i>	center_upper (description="null", quantity="none")
<i>DoubleId</i>	right_lower (description="null", quantity="none")
<i>DoubleId</i>	right (description="null", quantity="none")
<i>DoubleId</i>	right_upper (description="null", quantity="none")
<i>DoubleId</i>	left_lower (description="null", quantity="none")
<i>DoubleId</i>	left (description="null", quantity="none")
<i>DoubleId</i>	left_upper (description="null", quantity="none")

2.46. HIFICAL Product - HIFI Calibration Product

<i>product</i> (type="HifiCalibrationProduct", description="HIFI Calibration Product")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
<i>Columns</i>	
<i>table dataset</i>	(name="ChopperThrows", description="HIFI Calibration Product")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")

StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	DATE_OBS (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
<i>Columns</i>	
<i>StringId</i>	band (description="null", quantity="none")
<i>DoubleId</i>	throwLength (description="throw length", quantity="deg")
<i>DoubleId</i>	throwAngle (description="throw angle", quantity="deg")
<i>DoubleId</i>	throwHalfLength (description="half throw length", quantity="deg")
<i>DoubleId</i>	throwHalfAngle (description="half throw angle", quantity="deg")
<i>StringId</i>	measurement (description="maps used", quantity="none")

2.47. HIFICAL Product - HIFI Generic Pipeline Product

<i>product (type="GenericPipelineProduct", description="HIFI Generic Pipeline Product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation data of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
DateParameter	DATE_OBS (description="null")
StringParameter	frequencyType (description="null")
<i>Columns</i>	
<i>table dataset</i>	<i>(name="couplingEfficiency-H", description="HIFI Generic Pipeline Product")</i>
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation data of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")

StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
DateParameter	DATE_OBS (description="null")
StringParameter	frequencyType (description="null")
<i>Columns</i>	
<i>StringId</i>	band (description="null", quantity="none")
<i>DoubleId</i>	frequency (description="Frequency", quantity="GHz")
<i>DoubleId</i>	eta_hot (description="eta_cold", quantity="none")
<i>DoubleId</i>	eta_cold (description="eta_hot", quantity="none")

2.48. HIFICAL Product - HIFI Generic Pipeline Product

<i>product (type="GenericPipelineProduct", description="HIFI Generic Pipeline Product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation data of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
DateParameter	DATE_OBS (description="null")
StringParameter	frequencyType (description="null")
<i>Columns</i>	
<i>table dataset</i>	<i>(name="couplingEfficiency-V", description="HIFI Generic Pipeline Product")</i>
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation data of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")

DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
DateParameter	DATE_OBS (description="null")
StringParameter	frequencyType (description="null")
<i>Columns</i>	
<i>StringId</i>	band (description="null", quantity="none")
<i>DoubleId</i>	frequency (description="Frequency", quantity="GHz")
<i>DoubleId</i>	eta_hot (description="eta_cold", quantity="none")
<i>DoubleId</i>	eta_cold (description="eta_hot", quantity="none")

2.49. HIFICAL Product - HIFI Generic Pipeline Product

<i>product (type="GenericPipelineProduct", description="HIFI Generic Pipeline Product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
StringParameter	frequencyType (description="null")
<i>Columns</i>	
<i>table dataset (name="forwardEfficiency-H", description="HIFI Generic Pipeline Product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")

StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
StringParameter	frequencyType (description="null")
Columns	
StringId	band (description="band", quantity="none")
DoubleId	frequency (description="Frequency", quantity="GHz")
DoubleId	eta_1 (description="Forward efficiency", quantity="none")

2.50. HIFICAL Product - HIFI Generic Pipeline Product

<i>product (type="GenericPipelineProduct", description="HIFI Generic Pipeline Product")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
StringParameter	frequencyType (description="null")
Columns	
table dataset	<i>(name="forwardEfficiency-V", description="HIFI Generic Pipeline Product")</i>
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
StringParameter	frequencyType (description="null")

Columns			
<i>String1d</i>		band (description="band", quantity="none")	
<i>Double1d</i>		frequency (description="Frequency", quantity="GHz")	
<i>Double1d</i>		eta_1 (description="Forward efficiency", quantity="none")	

2.51. HIFICAL Product - HIFI Calibration Product

<i>product</i> (type="HifiCalibrationProduct", description="HIFI Calibration Product")			
Metadata			
StringParameter	type (description="Product Type Identification")		
StringParameter	creator (description="Generator of this product")		
DateParameter	creationDate (description="Creation date of this product")		
StringParameter	description (description="Name of this product")		
StringParameter	instrument (description="Instrument attached to this product")		
StringParameter	modelName (description="Model name attached to this product")		
DateParameter	startDate (description="Start date of this product")		
DateParameter	endDate (description="End date of this product")		
StringParameter	formatVersion (description="Version of product format")		
LongParameter	calversion (description="Version of this product")		
StringParameter	name (description="Name of this product")		
Columns			
<i>table dataset</i> (name="6aH", description="null")			
Metadata			
DoubleParameter	low (description="lowest knot value for this band")		
DoubleParameter	high (description="highest knot value for this band")		
DoubleParameter	xScale (description="scale factor for wave axis")		
DoubleParameter	xOffset (description="offset for wave axis : x = wave / scale - offset")		
LongParameter	fastKnots (description="number of knots in fast splines")		
LongParameter	slowKnots (description="number of knots in slow splines")		
LongParameter	fastOrder (description="number of knots in slow splines")		
LongParameter	slowOrder (description="number of knots in slow splines")		
Columns			
<i>Double2d</i>		fast (description="null", quantity="none")	
<i>Double2d</i>		slow (description="null", quantity="none")	
<i>Double1d</i>		scale (description="null", quantity="none")	
<i>Double1d</i>		means (description="null", quantity="none")	

2.52. HIFICAL Product - HIFI Calibration Product

<i>product</i> (type="HifiCalibrationProduct", description="HIFI Calibration Product")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this product")
<i>Columns</i>	
<i>composite</i>	(description="1342262675")
<i>Metadata</i>	
LongParameter	obsid (description="Observation identifier")
<i>Columns</i>	
<i>table dataset</i>	(name="WBS-H", description="WBS-H")
<i>Metadata</i>	
StringParameter	hcssVersion (description="HCSS version number of creator")
LongParameter	npoly (description="order of polynomial to multiply ESW models")
LongParameter	knots (description="number of knots in the background splines")
LongParameter	order (description="order of the background splines")
LongParameter	filter (description="length of BoxCarFilter over data")
BooleanParameter	offSource (description="Also process the off-source spectra")
BooleanParameter	robustFit (description="Robust fitting is on")
LongParameter	obsid (description="Observation identifier")
StringParameter	band (description="Active band")
StringParameter	version (description="Version of the Calibration table used")
BooleanParameter	inspectedESWSolution (description="An ICC calibration scientist evaluated this ESW solution")
StringParameter	commentESWSolutionH (description="Comment on ESW solution for WBS-H after evaluation by ICC")
<i>Columns</i>	
<i>Int1d</i>	box (description="Box index of HTP", quantity="none")
<i>Int1d</i>	psIndex (description="PS index within box", quantity="none")
<i>Int1d</i>	calIndex (description="Index of Standing wave from models in Cal-Tree", quantity="none")

	<i>Double1d</i>	evidence (description="Evidence for fit", quantity="none")
	<i>Double2d</i>	param (description="Multiplicative parameters", quantity="none")
	<i>Double2d</i>	backg (description="Parameters of background fit", quantity="none")
<i>table dataset</i>	(name="WBS-V", description="WBS-V")	
<i>Metadata</i>		
	StringParameter	hcssVersion (description="HCSS version number of creator")
	LongParameter	npoly (description="order of polynomial to multiply ESW models")
	LongParameter	knots (description="number of knots in the background splines")
	LongParameter	order (description="order of the background splines")
	LongParameter	filter (description="length of BoxCarFilter over data")
	BooleanParameter	offSource (description="Also process the off-source spectra")
	BooleanParameter	robustFit (description="Robust fitting is on")
	LongParameter	obsid (description="Observation identifier")
	StringParameter	band (description="Active band")
	StringParameter	version (description="Version of the Calibration table used")
	BooleanParameter	inspectedESWSolution (description="An ICC calibration scientist evaluated this ESW solution")
	StringParameter	commentESWSolutionV (description="Comment on ESW solution for WBS-V after evaluation by ICC")
<i>Columns</i>		
	<i>Int1d</i>	box (description="Box index of HTP", quantity="none")
	<i>Int1d</i>	psIndex (description="PS index within box", quantity="none")
	<i>Int1d</i>	calIndex (description="Index of Standing wave from models in Cal-Tree", quantity="none")
	<i>Double1d</i>	evidence (description="Evidence for fit", quantity="none")
	<i>Double2d</i>	param (description="Multiplicative parameters", quantity="none")
	<i>Double2d</i>	backg (description="Parameters of background fit", quantity="none")

2.53. HIFICAL Product - HIFI Generic Pipeline Product

<i>product (type="GenericPipelineProduct", description="HIFI Generic Pipeline Product")</i>		
<i>Metadata</i>		
	StringParameter	type (description="Product Type Identification")
	StringParameter	creator (description="Generator of this product")
	DateParameter	creationDate (description="Creation date of this product")
	StringParameter	description (description="Name of this product")
	StringParameter	instrument (description="Instrument attached to this product")
	StringParameter	modelName (description="Model name attached to this product")
	DateParameter	startDate (description="null")
	DateParameter	endDate (description="null")
	StringParameter	formatVersion (description="Version of product format")

LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
StringParameter	frequencyType (description="null")
<i>Columns</i>	
<i>table dataset</i>	(name="mixerCurrentTolerances", description="HIFI Generic Pipeline Product")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	DATE_OBS (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
StringParameter	frequencyType (description="null")
<i>Columns</i>	
<i>StringId</i>	band (description="null", quantity="none")
<i>DoubleId</i>	frequency (description="null", quantity="GHZ")
<i>DoubleId</i>	mkFluxHotCold (description="null", quantity="mA")
<i>DoubleId</i>	doRefSubtract (description="null", quantity="mA")
<i>DoubleId</i>	doOffSubtract (description="null", quantity="mA")
<i>DoubleId</i>	doFluxHotCold (description="null", quantity="mA")

2.54. HIFICAL Product - HIFI Generic Pipeline Product

<i>product (type="GenericPipelineProduct", description="HIFI Generic Pipeline Product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation data of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")

LongParameter	calversion (description="Version of this product")		
StringParameter	name (description="Name of this Product")		
DateParameter	DATE_OBS (description="null")		
StringParameter	frequencyType (description="null")		
Columns			
table dataset	<i>(name="sidebandGainIF-H", description="HIFI Generic Pipeline Product")</i>		
Metadata			
StringParameter	type (description="Product Type Identification")		
StringParameter	creator (description="Generator of this product")		
DateParameter	creationDate (description="Creation data of this product")		
StringParameter	description (description="Name of this product")		
StringParameter	instrument (description="Instrument attached to this product")		
StringParameter	modelName (description="Model name attached to this product")		
DateParameter	startDate (description="null")		
DateParameter	endDate (description="null")		
StringParameter	formatVersion (description="Version of product format")		
LongParameter	calversion (description="Version of this product")		
StringParameter	name (description="Name of this Product")		
DateParameter	DATE_OBS (description="null")		
StringParameter	frequencyType (description="null")		
Columns			
StringId	band (description="null", quantity="none")		
DoubleId	frequency (description="null", quantity="MHz")		
DoubleId	gain_usb_0 (description="null", quantity="none")		
DoubleId	gain_usb_1 (description="null", quantity="none")		
DoubleId	gain_usb_2 (description="null", quantity="none")		
DoubleId	gain_usb_3 (description="null", quantity="none")		

2.55. HIFICAL Product - HIFI Generic Pipeline Product

<i>product (type="GenericPipelineProduct", description="HIFI Generic Pipeline Product")</i>			
Metadata			
StringParameter	type (description="Product Type Identification")		
StringParameter	creator (description="Generator of this product")		
DateParameter	creationDate (description="Creation data of this product")		
StringParameter	description (description="Name of this product")		
StringParameter	instrument (description="Instrument attached to this product")		
StringParameter	modelName (description="Model name attached to this product")		
DateParameter	startDate (description="null")		
DateParameter	endDate (description="null")		

StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
DateParameter	DATE_OBS (description="null")
StringParameter	frequencyType (description="null")
Columns	
table dataset	(name="sidebandGainIF-V", description="HIFI Generic Pipeline Product")
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation data of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
DateParameter	DATE_OBS (description="null")
StringParameter	frequencyType (description="null")
Columns	
StringId	band (description="null", quantity="none")
DoubleId	frequency (description="null", quantity="MHz")
DoubleId	gain_usb_0 (description="null", quantity="none")
DoubleId	gain_usb_1 (description="null", quantity="none")
DoubleId	gain_usb_2 (description="null", quantity="none")
DoubleId	gain_usb_3 (description="null", quantity="none")

2.56. HIFICAL Product - HIFI Generic Pipeline Product

<i>product (type="GenericPipelineProduct", description="HIFI Generic Pipeline Product")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation data of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")

DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
DateParameter	DATE_OBS (description="null")
StringParameter	frequencyType (description="null")
<i>Columns</i>	
<i>table dataset</i>	(name="sidebandGainLO-H", description="HIFI Generic Pipeline Product")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation data of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
DateParameter	DATE_OBS (description="null")
StringParameter	frequencyType (description="null")
<i>Columns</i>	
<i>StringId</i>	band (description="null", quantity="none")
<i>DoubleId</i>	frequency (description="null", quantity="GHz")
<i>DoubleId</i>	gain_usb (description="null", quantity="none")
<i>DoubleId</i>	gain_lsb (description="null", quantity="none")

2.57. HIFICAL Product - HIFI Generic Pipeline Product

<i>product (type="GenericPipelineProduct", description="HIFI Generic Pipeline Product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation data of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")

StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
DateParameter	DATE_OBS (description="null")
StringParameter	frequencyType (description="null")
Columns	
table dataset	(name="sidebandGainLO-V", description="HIFI Generic Pipeline Product")
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation data of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
DateParameter	DATE_OBS (description="null")
StringParameter	frequencyType (description="null")
Columns	
StringId	band (description="null", quantity="none")
DoubleId	frequency (description="Frequency", quantity="GHz")
DoubleId	gain_usb (description="USB Gain Coefficients", quantity="none")
DoubleId	gain_lsb (description="LSB Gain Coefficients", quantity="none")

2.58. HIFICAL Product - HIFI Generic Pipeline Product

product (type="GenericPipelineProduct", description="HIFI Generic Pipeline Product")	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation data of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")

LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
StringParameter	frequencyType (description="null")
<i>Columns</i>	
<i>table dataset</i>	(name="smoothOffWidth-H", description="HIFI Generic Pipeline Product")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation data of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
StringParameter	frequencyType (description="null")
<i>Columns</i>	
<i>StringId</i>	band (description="null", quantity="none")
<i>DoubleId</i>	frequency (description="null", quantity="GHz")
<i>DoubleId</i>	LoadChop (description="null", quantity="MHz")
<i>DoubleId</i>	FSwitch (description="null", quantity="MHz")

2.59. HIFICAL Product - HIFI Generic Pipeline Product

<i>product (type="GenericPipelineProduct", description="HIFI Generic Pipeline Product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation data of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
StringParameter	frequencyType (description="null")

<i>Columns</i>	
<i>table dataset</i>	(<i>name="smoothOffWidth-V", description="HIFI Generic Pipeline Product"</i>)
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation data of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
StringParameter	frequencyType (description="null")
<i>Columns</i>	
<i>StringId</i>	band (description="null", quantity="none")
<i>DoubleId</i>	frequency (description="null", quantity="GHz")
<i>DoubleId</i>	LoadChop (description="null", quantity="MHz")
<i>DoubleId</i>	FSwitch (description="null", quantity="MHz")

2.60. HIFICAL Product - HIFI Calibration Product

<i>product (type="HifiCalibrationProduct", description="HIFI Calibration Product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this product")
<i>Columns</i>	
<i>table dataset</i>	(<i>name="1342180474", description="null"</i>)
<i>Metadata</i>	
LongParameter	obsid (description="Observation identifier")

Columns	
StringId	backend (description="Backend", quantity="none")
LongId	dsidx (description="Index of the dataset in the HTP", quantity="none")
LongId	row (description="Row within dataset", quantity="none")
LongId	subband (description="Subband", quantity="none")
LongId	pixStart (description="Start Pixel", quantity="none")
LongId	pixEnd (description="End Pixel", quantity="none")
StringId	type (description="Type of flag", quantity="none")
StringId	source (description="Flag source", quantity="none")

2.61. HIFICAL Product - HIFI Calibration Product

<i>product (type="HifiCalibrationProduct", description="HIFI Calibration Product")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this product")
Columns	
<i>table dataset (name="uncertaintyModel-H", description="HIFI Calibration Product")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this product")
Columns	

<i>StringId</i>	band (description="null", quantity="none")
<i>DoubleId</i>	frequency (description="null", quantity="GHz")
<i>StringId</i>	uncertaintyType (description="null", quantity="none")
<i>DoubleId</i>	uncertainty0 (description="null", quantity="none")
<i>DoubleId</i>	uncertainty1 (description="null", quantity="none")
<i>DoubleId</i>	uncertainty2 (description="null", quantity="none")
<i>DoubleId</i>	uncertainty3 (description="null", quantity="none")

2.62. HIFICAL Product - HIFI Calibration Product

<i>product</i> (type="HifiCalibrationProduct", description="HIFI Calibration Product")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this product")
<i>Columns</i>	
<i>table dataset</i>	(name="uncertaintyModel-V", description="HIFI Calibration Product")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this product")
<i>Columns</i>	
<i>StringId</i>	band (description="null", quantity="none")
<i>DoubleId</i>	frequency (description="null", quantity="GHz")

<i>StringId</i>	uncertaintyType (description="null", quantity="none")
<i>DoubleId</i>	uncertainty0 (description="null", quantity="none")
<i>DoubleId</i>	uncertainty1 (description="null", quantity="none")
<i>DoubleId</i>	uncertainty2 (description="null", quantity="none")
<i>DoubleId</i>	uncertainty3 (description="null", quantity="none")

2.63. HIFICAL Product - Values for Power gain non-linearity correction

<i>product</i> (type="CalHrsPowCorr", description="Values for Power gain non-linearity correction")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start time of this product")
DateParameter	endDate (description="End time of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this product")
StringParameter	filename (description="Disk filename used to create this product")
LongParameter	version (description="Version of this product")
<i>Columns</i>	
<i>table dataset</i>	(name="PowCorrVSigma", description="Values for Power gain non-linearity correction")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start time of this product")
DateParameter	DATE_OBS (description="Start time of this product")
DateParameter	endDate (description="End time of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	version (description="Version of this product")
StringParameter	name (description="Name of this product")
StringParameter	filename (description="Disk filename used to create this product")

LongParameter	calversion (description="Version of this product")
Columns	
DoubleId	vSigma (description="vSigma Vector", quantity="none")
	()
table dataset	Dataset similar to the one above with (name="PowCorrGain", description="Values for Power gain non-linearity correction")

2.64. HIFICAL Product - Value for Fast Quantization Distortion Correction

<i>product (type="CalHrsQDCFast", description="Value for Fast Quantization Distortion Correction")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start time of this product")
DateParameter	endDate (description="End time of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this product")
DoubleParameter	QDCFastFactor (description="QDC fast factor of this product")
LongParameter	version (description="Version of this product")
Columns	

2.65. HIFICAL Product - Values for Full Quantization Distortion Correction

<i>product (type="CalHrsQDCFull", description="Values for Full Quantization Distortion Correction")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")

StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start time of this product")
DateParameter	endDate (description="End time of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this product")
StringParameter	filename (description="Disk filename used to create this product")
LongParameter	version (description="Version of this product")
Columns	
table	(name="QDCFullMSigma", description="Values for Full Quantization Distortion Correction")
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start time of this product")
DateParameter	DATE_OBS (description="Start time of this product")
DateParameter	endDate (description="End time of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	version (description="Version of this product")
StringParameter	name (description="Name of this product")
StringParameter	filename (description="Disk filename used to create this product")
LongParameter	calversion (description="Version of this product")
Columns	
DoubleId	mSigma (description="mSigma Vector", quantity="none")
	()
table dataset	Dataset similar to the one above with (name="QDCFullRo", description="Values for Full Quantization Distortion Correction")
	()
table dataset	Dataset similar to the one above with (name="QDCFullVSigma", description="Values for Full Quantization Distortion Correction")
	()
table dataset	Dataset similar to the one above with (name="QDCFullGridDim", description="Values for Full Quantization Distortion Correction")
	()

<i>table dataset</i>	Dataset similar to the one above with (name="QDCFullGrid", description="Values for Full Quantization Distortion Correction")

2.66. HIFICAL Product - HIFI Calibration Product

<i>product (type="HifiCalibrationProduct", description="HIFI Calibration Product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this product")
<i>Columns</i>	
<i>table dataset</i>	(name="APE", description="HIFI Calibration Product")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this product")
<i>Columns</i>	
<i>LongId</i>	odStart (description="null", quantity="none")
<i>LongId</i>	odEnd (description="null", quantity="none")
<i>DoubleId</i>	ape (description="null", quantity="arcsec")

2.67. HIFICAL Product - BBid

<i>product (type="HifiCalibrationProduct", description="BBid")</i>

<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
LongParameter	maxblock (description="null")
DateParameter	DATE_OBS (description="Start date of this product")
<i>Columns</i>	
<i>table dataset</i>	(name="BBid", description="BBid")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	DATE_OBS (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
LongParameter	maxblock (description="null")
<i>Columns</i>	
<i>IntId</i>	bbid (description="null", quantity="none")
<i>StringId</i>	type (description="null", quantity="none")
<i>BoolId</i>	line (description="null", quantity="none")
<i>BoolId</i>	wbs (description="null", quantity="none")
<i>BoolId</i>	hrs (description="null", quantity="none")
<i>StringId</i>	details (description="null", quantity="none")

2.68. HIFICAL Product - HIFI Calibration Product

<i>product (type="HifiCalibrationProduct", description="HIFI Calibration Product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this product")
<i>Columns</i>	
<i>table dataset (name="CleanDF", description="HIFI Calibration Product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this product")
<i>Columns</i>	
<i>LongId</i>	obsid (description="null", quantity="none")
<i>IntId</i>	dataset (description="null", quantity="none")
<i>IntId</i>	start (description="null", quantity="none")
<i>IntId</i>	length (description="null", quantity="none")
<i>StringId</i>	backend (description="null", quantity="none")
<i>StringId</i>	comment (description="null", quantity="none")

2.69. HIFICAL Product - HK

<i>product (type="HifiCalibrationProduct", description="HK")</i>

<i>Metadata</i>			
StringParameter	type	(description="Product Type Identification")	
StringParameter	creator	(description="Generator of this product")	
DateParameter	creationDate	(description="Creation date of this product")	
StringParameter	description	(description="Name of this product")	
StringParameter	instrument	(description="Instrument attached to this product")	
StringParameter	modelName	(description="Model name attached to this product")	
DateParameter	startDate	(description="Start date of this product")	
DateParameter	endDate	(description="End date of this product")	
StringParameter	formatVersion	(description="Version of product format")	
LongParameter	calversion	(description="Version of this product")	
StringParameter	name	(description="Name of this Product")	
DateParameter	DATE_OBS	(description="Start date of this product")	
<i>Columns</i>			
<i>table dataset</i>	<i>(name="HK", description="HIFI Calibration Product")</i>		
<i>Metadata</i>			
StringParameter	type	(description="Product Type Identification")	
StringParameter	creator	(description="Generator of this product")	
DateParameter	creationDate	(description="Creation date of this product")	
StringParameter	description	(description="Name of this product")	
StringParameter	instrument	(description="Instrument attached to this product")	
StringParameter	modelName	(description="Model name attached to this product")	
DateParameter	startDate	(description="Start date of this product")	
DateParameter	endDate	(description="End date of this product")	
StringParameter	formatVersion	(description="Version of product format")	
LongParameter	calversion	(description="Version of this product")	
StringParameter	name	(description="Name of this product")	
<i>Columns</i>			
<i>StringId</i>	instrument	(description="Instrument name: hrs or wbs or both", quantity="none")	
<i>StringId</i>	name	(description="Names of the columns", quantity="none")	
<i>StringId</i>	unit	(description="Units of the columns", quantity="none")	
<i>StringId</i>	description	(description="Descriptions of the columns", quantity="none")	
<i>StringId</i>	mnemonic	(description="Mnemonics of HK items to be places in the colum", quantity="none")	
<i>StringId</i>	ctype	(description="Type of conversion: raw or converted", quantity="none")	
<i>BoolId</i>	prefix	(description="Mnemonic needs prefix (HRH_ etc.) or not", quantity="none")	

2.70. HIFICAL Product - UpConvertLO

<i>product (type="HifiCalibrationProduct", description="UpConvertLO")</i>			
<i>Metadata</i>			
StringParameter	type (description="Product Type Identification")		
StringParameter	creator (description="Generator of this product")		
DateParameter	creationDate (description="Creation date of this product")		
StringParameter	description (description="Name of this product")		
StringParameter	instrument (description="Instrument attached to this product")		
StringParameter	modelName (description="Model name attached to this product")		
DateParameter	startDate (description="Start date of this product")		
DateParameter	endDate (description="End date of this product")		
StringParameter	formatVersion (description="Version of product format")		
LongParameter	calversion (description="Version of this product")		
StringParameter	name (description="Name of this Product")		
DoubleParameter	Horizontal (description="Upconverter factor for horizontal polarization of bands 6 & 7", quantity="MHz")		
DoubleParameter	Vertical (description="Upconverter factor for vertical polarization of bands 6 & 7", quantity="MHz")		
DateParameter	DATE_OBS (description="Start date of this product", quantity="MHz")		
<i>Columns</i>			
<i>table dataset (name="UpConvertLO", description="UpConvertLO")</i>			
<i>Metadata</i>			
StringParameter	type (description="Product Type Identification")		
StringParameter	creator (description="Generator of this product")		
DateParameter	creationDate (description="Creation date of this product")		
StringParameter	description (description="Name of this product")		
StringParameter	instrument (description="Instrument attached to this product")		
StringParameter	modelName (description="Model name attached to this product")		
DateParameter	startDate (description="Start date of this product")		
DateParameter	DATE_OBS (description="Start date of this product")		
DateParameter	endDate (description="End date of this product")		
StringParameter	formatVersion (description="Version of product format")		
LongParameter	calversion (description="Version of this product")		
StringParameter	name (description="Name of this Product")		
DoubleParameter	Horizontal (description="Upconverter factor for horizontal polarization of bands 6 & 7", quantity="MHz")		
DoubleParameter	Vertical (description="Upconverter factor for vertical polarization of bands 6 & 7", quantity="MHz")		
<i>Columns</i>			

2.71. HIFICAL Product - HIFI Generic Pipeline Product

<i>product (type="GenericPipelineProduct", description="HIFI Generic Pipeline Product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation data of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
DateParameter	DATE_OBS (description="null")
StringParameter	frequencyType (description="null")
<i>Columns</i>	
<i>table dataset</i>	<i>(name="mixer", description="HIFI Generic Pipeline Product")</i>
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation data of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
DateParameter	DATE_OBS (description="null")
StringParameter	frequencyType (description="null")
<i>Columns</i>	
<i>StringId</i>	band (description="null", quantity="none")
<i>DoubleId</i>	frequency (description="null", quantity="GHz")
<i>DoubleId</i>	mixerCurrent (description="null", quantity="mA")
<i>DoubleId</i>	mixerCurrentMin (description="null", quantity="mA")
<i>DoubleId</i>	mixerCurrentMax (description="null", quantity="mA")
<i>DoubleId</i>	mixerVoltage (description="null", quantity="mV")

<i>DoubleId</i>	mixerVoltageMin (description="null", quantity="mV")
<i>DoubleId</i>	mixerVoltageMax (description="null", quantity="mV")
<i>DoubleId</i>	mixerMagnetCurrent (description="null", quantity="mA")
<i>DoubleId</i>	mixerMagnetCurrentMin (description="null", quantity="mA")
<i>DoubleId</i>	mixerMagnetCurrentMax (description="null", quantity="mA")

2.72. HIFICAL Product - HIFI Generic Pipeline Product

<i>product</i> (type="GenericPipelineProduct", description="HIFI Generic Pipeline Product")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation data of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
DateParameter	DATE_OBS (description="null")
StringParameter	frequencyType (description="null")
<i>Columns</i>	
<i>table dataset</i>	(name="hk", description="HIFI Generic Pipeline Product")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation data of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
DateParameter	DATE_OBS (description="null")
StringParameter	frequencyType (description="null")
<i>Columns</i>	

<i>StringId</i>	band (description="null", quantity="none")
<i>DoubleId</i>	frequency (description="null", quantity="GHz")
<i>DoubleId</i>	magnetResistance (description="null", quantity="kOhm")
<i>DoubleId</i>	magnetResistanceMin (description="null", quantity="kOhm")
<i>DoubleId</i>	magnetResistanceMax (description="null", quantity="kOhm")
<i>DoubleId</i>	fpuChopper (description="null", quantity="V")
<i>DoubleId</i>	fpuChopperMin (description="null", quantity="V")
<i>DoubleId</i>	fpuChopperMax (description="null", quantity="V")
<i>DoubleId</i>	diplexerResistance (description="null", quantity="kOhm")
<i>DoubleId</i>	diplexerCurrentLim (description="null", quantity="mA")
<i>DoubleId</i>	diplexerResistanceMin (description="null", quantity="kOhm")
<i>DoubleId</i>	diplexerResistanceMax (description="null", quantity="kOhm")
<i>DoubleId</i>	hotLoadMin (description="null", quantity="K")
<i>DoubleId</i>	hotLoadMax (description="null", quantity="K")
<i>DoubleId</i>	coldLoadMin (description="null", quantity="K")
<i>DoubleId</i>	coldLoadMax (description="null", quantity="K")
<i>DoubleId</i>	level0TempMin (description="null", quantity="K")
<i>DoubleId</i>	level0TempMax (description="null", quantity="K")
<i>DoubleId</i>	LnaFIF1 (description="null", quantity="V")
<i>DoubleId</i>	LnaFIF1Min (description="null", quantity="V")
<i>DoubleId</i>	LnaFIF1Max (description="null", quantity="V")
<i>DoubleId</i>	LnaFIF2 (description="null", quantity="V")
<i>DoubleId</i>	LnaFIF2Min (description="null", quantity="V")
<i>DoubleId</i>	LnaFIF2Max (description="null", quantity="V")
<i>DoubleId</i>	LnaSIF1 (description="null", quantity="V")
<i>DoubleId</i>	LnaSIF1Min (description="null", quantity="V")
<i>DoubleId</i>	LnaSIF1Max (description="null", quantity="V")
<i>DoubleId</i>	LnaSIF2 (description="null", quantity="V")
<i>DoubleId</i>	LnaSIF2Min (description="null", quantity="V")
<i>DoubleId</i>	LnaSIF2Max (description="null", quantity="V")
<i>DoubleId</i>	LnaSIF3 (description="null", quantity="V")
<i>DoubleId</i>	LnaSIF3Min (description="null", quantity="V")
<i>DoubleId</i>	LnaSIF3Max (description="null", quantity="V")

2.73. HIFICAL Product - HIFI Generic Pipeline Product

<i>product</i> (type="GenericPipelineProduct", description="HIFI Generic Pipeline Product")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")

DateParameter	creationDate (description="Creation data of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
StringParameter	frequencyType (description="null")
<i>Columns</i>	
<i>table dataset</i>	(name="diplexer", description="HIFI Generic Pipeline Product")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation data of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
StringParameter	frequencyType (description="null")
<i>Columns</i>	
<i>StringId</i>	band (description="null", quantity="none")
<i>DoubleId</i>	frequency (description="Lo frequency", quantity="GHz")
<i>DoubleId</i>	diplexerCurrent (description="Current of diplexer ar specified LO", quantity="mA")
<i>DoubleId</i>	diplexerCurrentMin (description="Minimum value allowed for diplexer current at specified LO", quantity="mA")
<i>DoubleId</i>	diplexerCurrentMax (description="Maximum value allowed for diplexer current at specified LO", quantity="mA")

2.74. HIFICAL Product - HIFI Generic Pipeline Product

<i>product (type="GenericPipelineProduct", description="HIFI Generic Pipeline Product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")

DateParameter	creationDate (description="Creation data of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="null")
DateParameter	DATE_OBS (description="null")
StringParameter	frequencyType (description="null")
BooleanParameter	extrapolate (description="null")
<i>Columns</i>	
<i>table dataset</i>	(name="louCurrent", description="HIFI Generic Pipeline Product")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation data of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="null")
DateParameter	DATE_OBS (description="null")
StringParameter	frequencyType (description="null")
BooleanParameter	extrapolate (description="null")
<i>Columns</i>	
<i>StringId</i>	band (description="null", quantity="none")
<i>DoubleId</i>	frequency (description="Lo frequency", quantity="GHz")
<i>DoubleId</i>	louCurrent (description="Current of lou ar specified LO", quantity="mA")
<i>DoubleId</i>	louCurrentMin (description="Minimum value allowed for lou current at specified LO", quantity="mA")
<i>DoubleId</i>	louCurrentMax (description="Maximum value allowed for lou current at specified LO", quantity="mA")

2.75. HIFICAL Product - HIFI Generic Pipeline Product

<i>product (type="GenericPipelineProduct", description="HIFI Generic Pipeline Product")</i>			
<i>Metadata</i>			
StringParameter	type (description="Product Type Identification")		
StringParameter	creator (description="Generator of this product")		
DateParameter	creationDate (description="Creation data of this product")		
StringParameter	description (description="Name of this product")		
StringParameter	instrument (description="Instrument attached to this product")		
StringParameter	modelName (description="Model name attached to this product")		
DateParameter	startDate (description="null")		
DateParameter	endDate (description="null")		
StringParameter	formatVersion (description="Version of product format")		
LongParameter	calversion (description="Version of this product")		
StringParameter	name (description="Name of this Product")		
StringParameter	frequencyType (description="null")		
<i>Columns</i>			
<i>table dataset (name="diplexer", description="HIFI Generic Pipeline Product")</i>			
<i>Metadata</i>			
StringParameter	type (description="Product Type Identification")		
StringParameter	creator (description="Generator of this product")		
DateParameter	creationDate (description="Creation data of this product")		
StringParameter	description (description="Name of this product")		
StringParameter	instrument (description="Instrument attached to this product")		
StringParameter	modelName (description="Model name attached to this product")		
DateParameter	startDate (description="null")		
DateParameter	endDate (description="null")		
StringParameter	formatVersion (description="Version of product format")		
LongParameter	calversion (description="Version of this product")		
StringParameter	name (description="Name of this Product")		
StringParameter	frequencyType (description="null")		
<i>Columns</i>			
<i>StringId</i>	band (description="null", quantity="none")		
<i>DoubleId</i>	frequency (description="null", quantity="GHz")		
<i>DoubleId</i>	diplexerCurrent (description="null", quantity="mA")		
<i>DoubleId</i>	diplexerCurrentMin (description="null", quantity="mA")		
<i>DoubleId</i>	diplexerCurrentMax (description="null", quantity="mA")		

2.76. HIFICAL Product - HIFI Calibration Product

<i>product (type="HifiCalibrationProduct", description="HIFI Calibration Product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
<i>Columns</i>	
<i>table dataset (name="pipelineParameter", description="HIFI Calibration Product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this Product")
<i>Columns</i>	
<i>LongId</i>	obsid (description="null", quantity="none")
<i>StringId</i>	backend (description="null", quantity="none")
<i>StringId</i>	task (description="null", quantity="none")
<i>StringId</i>	parameter (description="null", quantity="none")
<i>StringId</i>	value (description="null", quantity="none")

2.77. HIFICAL Product - The Bad pixel mask

<i>product (type="CalWbsBadPixel", description="The Bad pixel mask")</i>	
<i>Metadata</i>	

StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this product")
DoubleParameter	saturatedRepetition (description="saturatedRepetition")
LongParameter	thresholdSaturation (description="thresholdSaturation")
DoubleParameter	warningLevel (description="warningLevel")
DoubleParameter	flagValue (description="flagValue")
<i>Columns</i>	
<i>table dataset</i>	(name="Mask", description="Mask")
<i>Metadata</i>	
LongParameter	calversion (description="Version of this product")
<i>Columns</i>	
<i>IntId</i>	Mask (description="Bad pixels", quantity="none")

2.78. HIFICAL Product - The parameter used for the fitting of COMB spectra

<i>product (type="CalWbsFreqTuning", description="The parameter used for the fitting of COMB spectra ")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this product")
LongParameter	firstLinePosition (description="Position of the first line in pixels")

LongParameter	lineStep (description="Starting value for the difference in pixel between two adjacent COMB lines")
LongParameter	lineStepTolerance (description="Half range in pixels where is searched a new line.\u000AThe range (in pixel) is: the previous line + the Parameter lineStep +/- this parameter.")
LongParameter	gaussianRange (description="Half range in pixels used to fit each COMB line with a gaussian.\u000AThe total number of pixels used is 2*(gaussian-Range)")
LongParameter	numberOfLines (description="Number of lines aspected for each CCD in the COMB spectra")
LongParameter	minimumNumberOfLines (description="Minimum number of lines detected to set failed the fit of the COMB")
LongParameter	maxNumberOfSpikes (description="Max number of spikes allowed, for each CCD, before to return a failure in the initial line search in the COMB spectra")
LongParameter	polynomialDegree (description="Degree of the polynomial used to calculate the frequencies in function of pixels")
LongParameter	startCcd (description="First pixel used to find a line in the COMB.\u000AThis value can affect the number of lines found and the correspondent value in frequency")
LongParameter	endCcd (description="Last pixel used in the Check Comb. This value can affect the number of lines found")
LongParameter	noiseRange (description="Half of the range (in pixels) removed around each line of COMB \u000AThe resulting spectra is used to calculate the noise. It can be related to the Parameter gaussianRange")
DoubleParameter	dynamicRangeThreshold (description="Minimum value allowed for the Dynamic Range of CCDs")
DoubleParameter	resolutionThreshold (description="Maximum value for the Resolution of a CCDs in MHz")
DoubleParameter	efficiencyThreshold (description="Minimum value for the efficiency of a CCDs [%]")
DoubleParameter	rippleThreshold (description="Maximum value for the ripple of a CCDs [dB]")
DoubleParameter	frequencyFirstLine (description="Value in MHz of the first COMB line of the first CCD respect to the LO frequency")
DoubleParameter	lineWidth (description="Starting value for the fitter to found the width of the gaussians in the COMB spectra")
DoubleParameter	threshold (description="Threshold values used to found the gaussians in the COMB spectra. \u000AA small values will cause to found many spikes, an high value will cause to miss some lines.")
DoubleParameter	lineFrequencyStep (description="Difference in MHz between two adjacent COMB lines")
DoubleParameter	hrsRangeLoop (description="Range in MHz in frequencies around guessed position to found WBS frequencies in function of hrs values")
DoubleParameter	hrsStepLoop (description="Step in MHz used in the loop to found WBS frequencies in function of hrs values")
LongParameter	hrsSigmaRangeFit (description="Number of values below and above the minimum sigma to be used in the fit to find the minimum")
LongParameter	HrsSigmaPolynomialDegreeFit (description="Degree of the polynomial used to fit the minimum sigma")

<i>Columns</i>			

2.79. HIFICAL Product - The coefficients for the linear correction.

<i>product (type="Calibration", description="The coefficients for the linear correction.")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this product")
LongParameter	version (description="Version of this product")
<i>Columns</i>	
<i>table dataset</i>	<i>(name="Linear Coefficients", description="The coefficients for the linear correction.")</i>
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	DATE_OBS (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	version (description="Version of this product")
StringParameter	name (description="Name of this product")
LongParameter	calversion (description="Version of this product")
<i>Columns</i>	
<i>DoubleId</i>	band_1 (description="band 1 linear coefficients", quantity="none")
<i>DoubleId</i>	band_2 (description="band 2 linear coefficients", quantity="none")
<i>DoubleId</i>	band_3 (description="band 3 linear coefficients", quantity="none")
<i>DoubleId</i>	band_4 (description="band 4 linear coefficients", quantity="none")

<i>DoubleId</i>	band_5 (description="band 5 linear coefficients", quantity="none")
<i>DoubleId</i>	band_6 (description="band 6 linear coefficients", quantity="none")
<i>DoubleId</i>	band_7 (description="band 7 linear coefficients", quantity="none")
<i>DoubleId</i>	band_8 (description="band 8 linear coefficients", quantity="none")

2.80. HIFICAL Product - HIFI Calibration Product

<i>product</i> (type="HifiCalibrationProduct", description="HIFI Calibration Product")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this product")
DoubleParameter	threshold_maximum (description="threshold_maximum")
DoubleParameter	threshold_minimum (description="threshold_minimum")
DoubleParameter	threshold_average_maximum (description="threshold_average_maximum")
DoubleParameter	threshold_average_minimum (description="threshold_average_minimum")
DoubleParameter	threshold_variance (description="threshold_variance")
<i>Columns</i>	

2.81. HIFICAL Product - HIFI Calibration Product

<i>product</i> (type="HifiCalibrationProduct", description="HIFI Calibration Product")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")

DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this product")
Columns	
table dataset	(name="1342180474", description="1342180474")
Metadata	
LongParameter	obsid (description="Observation number")
StringParameter	missionConfiguration (description="Mission Configuration")
StringParameter	title (description="Observation Title")
LongParameter	obsRequestId (description="Observation Request Number")
Columns	
StringId	key (description="Message parameter key name", quantity="none")
StringId	value (description="Message parameter value", quantity="none")
StringId	type (description="Message parameter type", quantity="none")

2.82. HIFICAL Product - HIFI Calibration Product

<i>product (type="HifiCalibrationProduct", description="HIFI Calibration Product")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this product")
Columns	
table dataset	(name="UplinkModes", description="HIFI Calibration Product")
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")

StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this product")
<i>Columns</i>	
<i>StringId</i>	ObservingMode (description="null", quantity="none")
<i>StringId</i>	Parameters (description="null", quantity="none")
()	
<i>table dataset</i>	Dataset similar to the one above with (name="UplinkParameters", description="HIFI Calibration Product")

2.83. HIFICAL Product - The Bad pixel mask

<i>product (type="CalWbsBadPixel", description="The Bad pixel mask")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this product")
DoubleParameter	saturatedRepetition (description="saturatedRepetition")
LongParameter	thresholdSaturation (description="thresholdSaturation")
DoubleParameter	warningLevel (description="warningLevel")
DoubleParameter	flagValue (description="flagValue")
<i>Columns</i>	
<i>table dataset</i>	(name="Mask", description="Mask")
<i>Metadata</i>	
<i>Columns</i>	
<i>IntId</i>	Mask (description="Bad pixels", quantity="none")
()	
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

2.84. HIFICAL Product - The baselines determined from the measurements of the OFF position.

<i>product (type="GenericPipelineCalibrationOutput", description="The baselines determined from the measurements of the OFF position.")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	version (description="Version of this product")
StringParameter	name (description="Name of this product")
LongParameter	obsid (description="Observation Identifier")
LongParameter	apid (description="Application Programme Identifier")
StringParameter	Band (description="Active band")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	obsMode (description="Observation Mode")
LongParameter	odNumber (description="Operational day number")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
<i>Columns</i>	
<i>table dataset (name="1", description="HRS Spectrum Dataset of type: science")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")

DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of Channels")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")

BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
LongParameter	loadInterval (description="Load period in seconds", quantity="s")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	pattAngle (description="Spectral map rotation angle", quantity="degrees")
DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")
DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
LongParameter	n_cycles (description="Number of cycle in the map", quantity="degrees")
LongParameter	n_linesperscan (description="Number of lines per scan", quantity="degrees")
LongParameter	superSampling (description="Supersampling factor in the map", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 3 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 3 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")

BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 3 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 3 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
BooleanParameter	Valid (description="HRS spectrum contains at least one subband", quantity="degrees")
LongParameter	subbands (description="Number of subbands", quantity="degrees")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="degrees")
StringParameter	wavename (description="Actual name of the WaveColumn", quantity="degrees")
DoubleParameter	channelSpacing (description="Delta of frequency in MHz between 2 points of a HRS spectrum", quantity="MHz")
DoubleParameter	resolution (description="HRS resolution when a Hanning windowing is used, i.e. the channelSpacing * 2", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrum-Dataset", quantity="MHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="GHz")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="GHz")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="GHz")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="GHz")
<i>Columns</i>	
<i>Double2d</i>	flux_1 (description="HRS Correlation factors (in counts)", quantity="none")
<i>Double2d</i>	frequency_1 (description="Intermediate Frequency", quantity="MHz")
<i>Double2d</i>	weight_1 (description="null", quantity="none")
<i>Int2d</i>	flag_1 (description="null", quantity="none")
<i>Double2d</i>	flux_2 (description="HRS Correlation factors (in counts)", quantity="none")
<i>Double2d</i>	frequency_2 (description="Intermediate Frequency", quantity="MHz")
<i>Double2d</i>	weight_2 (description="null", quantity="none")
<i>Int2d</i>	flag_2 (description="null", quantity="none")

<i>Long1d</i>	obsTime (description="Observation Time (corrected)", quantity="none")
<i>Long1d</i>	packetTime (description="Packetization Time", quantity="none")
<i>Int1d</i>	integrations (description="Number of Integrations", quantity="none")
<i>Double2d</i>	integrationTime (description="Integration duration in seconds", quantity="s")
<i>Int1d</i>	bbtype (description="Building Block Type", quantity="none")
<i>Double1d</i>	Chopper (description="Actual chopper positions", quantity="none")
<i>Double1d</i>	cmd_chopper (description="Commanded chopper positions", quantity="none")
<i>Double1d</i>	LoFrequency (description="Local Oscillator Frequency", quantity="GHz")
<i>Double1d</i>	frequency_monitor (description="LSU Frequency Monitor", quantity="MHz")
<i>Bool1d</i>	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
<i>Int1d</i>	rowflag (description="Dataframe Flag", quantity="none")
<i>Double2d</i>	hot_cold (description="Hot and cold temperatures of the Blackbody Calibrator", quantity="K")
<i>Double1d</i>	MJC_Ver (description="Calibrated mixer junction current, vertical band 1", quantity="mA")
<i>Double1d</i>	MJC_Hor (description="Calibrated mixer junction current, horizontal band 1", quantity="mA")
<i>Double1d</i>	longitude_cmd (description="longitude (RA in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	latitude_cmd (description="latitude (Decl in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	longitude (description="longitude (RA in equatorial coord)", quantity="deg")
<i>Double1d</i>	latitude (description="latitude (Decl in equatorial coord)", quantity="deg")
<i>Double1d</i>	posAngle (description="Position Angle", quantity="deg")
<i>Double1d</i>	longitudeError (description="longitude errors", quantity="arcsec")
<i>Double1d</i>	latitudeError (description="latitude errors", quantity="arcsec")
<i>Double1d</i>	posAngleError (description="Position Angle errors", quantity="arcsec")
<i>Int1d</i>	rasterLineNum (description="Raster line number", quantity="1")
<i>Int2d</i>	colorIndex (description="null", quantity="none")
<i>Int1d</i>	nodCycleNum (description="Switching/nodding cycle number", quantity="1")
<i>Int1d</i>	bitshift (description="Bit Shift", quantity="none")
<i>Int2d</i>	type (description="null", quantity="none")
<i>Int2d</i>	resolution (description="null", quantity="none")
<i>Bool2d</i>	blockselection (description="Block Selection", quantity="none")
<i>String1d</i>	Buffer_S (description="Buffer for ACS integration : BufferA/BufferB", quantity="none")

<i>Int1d</i>	buffer (description="Integration Buffer", quantity="none")
<i>Double2d</i>	Attenuators (description="IRM attenuator values : 0-15.5 dB", quantity="dB")
<i>Int1d</i>	scanLineNum (description="Scan line number", quantity="1")
<i>Int1d</i>	bbnumber (description="Building Block Number", quantity="none")
<i>Double2d</i>	LO_F (description="LO Frequency values", quantity="MHz")
<i>Int1d</i>	customMapPointNum (description="Custom map pointing number", quantity="1")
<i>Int2d</i>	sampler (description="null", quantity="none")
<i>Int1d</i>	nrbytes (description="Number of Bytes", quantity="none")
<i>Int2d</i>	LO_S (description="Status of the LO : Locked (=1) / Unlocked (=0)", quantity="none")
<i>Int2d</i>	channels (description="null", quantity="none")
<i>Int2d</i>	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")
<i>String1d</i>	Pol_S (description="Polar used : H/V", quantity="none")
<i>Int1d</i>	rasterColumnNum (description="Raster Column number", quantity="1")
<i>String1d</i>	Unit_ID_S (description="Unit used : QM/FM", quantity="none")
<i>Int2d</i>	cuts (description="null", quantity="none")
<i>String1d</i>	Switch_S (description="Status of the input IF Switch : H/V", quantity="none")
<i>Long1d</i>	hkFlag (description="{HF_AV2_G_SIF1_V=17, HF_AH1_MXBIAS_C=0, HF_AV2_G_SIF3_V=21, HF_AH1_DPACT_V=10, HF_AV2_G_SIF2_V=19, HF_AH2_G_SIF3_V=20, HF_AH2_G_SIF2_V=18, HF_AH2_G_SIF1_V=16, HF_AH2_G_FIF1_V=12, HF_AH2_G_FIF2_V=14, HF_AV1_MXMG_V=7, HF_AP_SCHS_CT=22, HF_AV1_MXBIAS_V=3, HF_AV1_DPACT_C=27, HL_R_M1_1A_C=28, HF_APR_CH_ROT=8, HF_APR_SCC_S_CT=24, HF_AV2_G_FIF1_V=13, HF_AV2_G_FIF2_V=15, HL_R_M1_7A_C=28, HF_AH1_MXMG_V=6, HF_AR_SCHS_CT=23, HF_APR_S2K_CT=25, HL_R_M1_7B_C=28, HF_AH1_MXBIAS_V=2, HF_AV1_MXBIAS_C=1, HF_AV1_MXMG_C=5, HF_DPR_CH_ROT2=9, HF_AH1_DPACT_C=26, HL_R_M2_3B_C=28, HF_AV1_DPACT_V=11}", quantity="none")
<i>Int2d</i>	LO_F_raw (description="LO Frequency raw values", quantity="MHz")

2.85. HIFICAL Product - The baselines determined from the measurements of the OFF position.

product (type="GenericPipelineCalibrationOutput", description="The baselines determined from the measurements of the OFF position.")

<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	version (description="Version of this product")
StringParameter	name (description="Name of this product")
LongParameter	obsid (description="Observation Identifier")
LongParameter	apid (description="Application Programme Identifier")
StringParameter	Band (description="Active band")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	obsMode (description="Observation Mode")
LongParameter	odNumber (description="Operational day number")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
<i>Columns</i>	
<i>table dataset</i>	(name="1", description="WBS Spectrum Dataset of type: science")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of Channels")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")

StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
LongParameter	loadInterval (description="Load period in seconds", quantity="s")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")

DoubleParameter	pattAngle (description="Spectral map rotation angle", quantity="degrees")
DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")
DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
LongParameter	n_cycles (description="Number of cycle in the map", quantity="degrees")
LongParameter	n_linesperscan (description="Number of lines per scan", quantity="degrees")
LongParameter	superSampling (description="Supersampling factor in the map", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 3 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 3 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 3 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 3 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
StringParameter	badLoBand_4 (description="bad Lo in band", quantity="degrees")

LongParameter	Pipeline applied (description="Define which pipeline modules have been applied to the data.\u000A bit 0 = not used \u000A bit 1 = Scan count correction \u000A bit 3 = Dark correction \u000A bit 4 = Non Linearity correction \u000A bit 5 = Zero correction \u000A bit 6 = Frequency calibration applied \u000A", quantity="degrees")
BooleanParameter	isMasked (description="Bad Pixels have been flagged", quantity="degrees")
DoubleParameter	resolution (description="Mean resolution from all combs spectra", quantity="MHz")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrum-Dataset", quantity="MHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="GHz")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="GHz")
LongParameter	subbandstart_3 (description="Starting channel for subband 3", quantity="GHz")
LongParameter	subbandstart_4 (description="Starting channel for subband 4", quantity="GHz")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="GHz")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="GHz")
LongParameter	subbandlength_3 (description="Length of subband 3", quantity="GHz")
LongParameter	subbandlength_4 (description="Length of subband 4", quantity="GHz")
<i>Columns</i>	
<i>Double2d</i>	flux_1 (description="WBS flux (in counts)", quantity="none")
<i>Double2d</i>	frequency_1 (description="Intermediate Frequency", quantity="MHz")
<i>Double2d</i>	weight_1 (description="null", quantity="none")
<i>Int2d</i>	flag_1 (description="null", quantity="none")
<i>Double2d</i>	flux_2 (description="WBS flux (in counts)", quantity="none")
<i>Double2d</i>	frequency_2 (description="Intermediate Frequency", quantity="MHz")
<i>Double2d</i>	weight_2 (description="null", quantity="none")
<i>Int2d</i>	flag_2 (description="null", quantity="none")
<i>Double2d</i>	flux_3 (description="WBS flux (in counts)", quantity="none")
<i>Double2d</i>	frequency_3 (description="Intermediate Frequency", quantity="MHz")

<i>Double2d</i>	weight_3 (description="null", quantity="none")
<i>Int2d</i>	flag_3 (description="null", quantity="none")
<i>Double2d</i>	flux_4 (description="WBS flux (in counts)", quantity="none")
<i>Double2d</i>	frequency_4 (description="Intermediate Frequency", quantity="MHz")
<i>Double2d</i>	weight_4 (description="null", quantity="none")
<i>Int2d</i>	flag_4 (description="null", quantity="none")
<i>Long1d</i>	obsTime (description="Observation Time", quantity="none")
<i>Long1d</i>	packetTime (description="Packetization Time", quantity="none")
<i>Int1d</i>	scancount (description="Integrated Scan Count", quantity="none")
<i>Int1d</i>	integrations (description="Number of Integrations", quantity="none")
<i>Double1d</i>	integrationTime (description="Integration duration in seconds", quantity="s")
<i>Int1d</i>	bbtype (description="Building Block Type", quantity="none")
<i>Double1d</i>	Chopper (description="Actual chopper positions", quantity="none")
<i>Double1d</i>	cmd_chopper (description="Commanded chopper positions", quantity="none")
<i>Double1d</i>	LoFrequency (description="Local Oscillator Frequency", quantity="GHz")
<i>Double1d</i>	frequency_monitor (description="LSU Frequency Monitor", quantity="MHz")
<i>Bool1d</i>	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
<i>Int1d</i>	rowflag (description="Dataframe Flag", quantity="none")
<i>Double2d</i>	hot_cold (description="Hot and cold temperatures of the Blackbody Calibrator", quantity="K")
<i>Double1d</i>	MJC_Ver (description="Calibrated mixer junction current, vertical band 1", quantity="mA")
<i>Double1d</i>	MJC_Hor (description="Calibrated mixer junction current, horizontal band 1", quantity="mA")
<i>Double1d</i>	longitude_cmd (description="Longitude (RA in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	latitude_cmd (description="latitude (Decl in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	longitude (description="longitude (RA in equatorial coord)", quantity="deg")
<i>Double1d</i>	latitude (description="latitude (Decl in equatorial coord)", quantity="deg")
<i>Double1d</i>	posAngle (description="Position Angle", quantity="deg")
<i>Double1d</i>	longitudeError (description="longitude errors", quantity="arcsec")
<i>Double1d</i>	latitudeError (description="latitude errors", quantity="arcsec")
<i>Double1d</i>	posAngleError (description="Position Angle errors", quantity="arcsec")
<i>Int1d</i>	rasterLineNum (description="Raster line number", quantity="1")
<i>Int1d</i>	nodCycleNum (description="Switching/nodding cycle number", quantity="1")

<i>Int2d</i>	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")
<i>Int1d</i>	bitshift (description="Bit Shift", quantity="none")
<i>Int1d</i>	buffer (description="Integration Buffer", quantity="none")
<i>Int1d</i>	rasterColumnNum (description="Raster Column number", quantity="1")
<i>Int1d</i>	scanLineNum (description="Scan line number", quantity="1")
<i>Int1d</i>	bbnumber (description="Building Block Number", quantity="none")
<i>Int1d</i>	IN_ATT (description="null", quantity="none")
<i>Int1d</i>	customMapPointNum (description="Custom map pointing number", quantity="1")
<i>Long1d</i>	hkFlag (description="{HF_AV2_G_SIF1_V=17, HF_AH1_MXBIAS_C=0, HF_AH1_MXMG_C=4, HF_AV2_G_SIF3_V=21, HF_AH1_DPACT_V=10, HF_AV2_G_SIF2_V=19, HF_AH2_G_SIF3_V=20, HF_AH2_G_SIF2_V=18, HF_AH2_G_SIF1_V=16, HF_AH2_G_FIF1_V=12, HF_AH2_G_FIF2_V=14, HF_AV1_MXMG_V=7, HF_AP_SCHS_CT=22, HF_AV1_MXBIAS_V=3, HF_AV1_DPACT_C=27, HL_R_M1_1A_C=28, HF_APR_CH_ROT=8, HF_APR_SCCS_CT=24, HF_AV2_G_FIF1_V=13, HF_AV2_G_FIF2_V=15, HL_R_M1_7A_C=28, HF_AH1_MXMG_V=6, HF_AR_SCHS_CT=23, HF_APR_S2K_CT=25, HL_R_M1_7B_C=28, HF_AH1_MXBIAS_V=2, HF_AV1_MXBIAS_C=1, HF_AV1_MXMG_C=5, HF_DPR_CH_ROT2=9, HF_AH1_DPACT_C=26, HL_R_M2_3B_C=28, HF_AV1_DPACT_V=11}", quantity="none")
<i>Int1d</i>	nrbytes (description="Number of Bytes", quantity="none")
<i>Int2d</i>	badLo (description="bit 0=Bad LO; bit 1=Weak_spur; bit 2=Strong_spur; bit 3=Strong_instability; bit 4=IF_saturation;", quantity="none")
<i>Int2d</i>	Band_ATT (description="null", quantity="none")

2.86. HIFICAL Product - Frequency Ranges / Drift

<i>product (type="GenericPipelineCalibrationOutput", description="Frequency Ranges / Drift")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")

StringParameter	formatVersion (description="Version of product format")
LongParameter	version (description="Version of this product")
StringParameter	name (description="Name of this product")
LongParameter	obsid (description="Observation Identifier")
LongParameter	apid (description="Application Programme Identifier")
StringParameter	Band (description="Active band")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	obsMode (description="Observation Mode")
LongParameter	odNumber (description="Operational day number")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
<i>Columns</i>	
<i>table dataset</i>	(name="1", description="null")
<i>Metadata</i>	
LongParameter	startObsTime (description="null")
LongParameter	endObsTime (description="null")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrum-Dataset")
<i>Columns</i>	

2.87. HIFICAL Product - Frequency Ranges / Drift

<i>product (type="GenericPipelineCalibrationOutput", description="Frequency Ranges / Drift")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	version (description="Version of this product")
StringParameter	name (description="Name of this product")
LongParameter	obsid (description="Observation Identifier")

LongParameter	apid (description="Application Programme Identifier")		
StringParameter	Band (description="Active band")		
StringParameter	AOT (description="Observation template (same as obsMode)")		
StringParameter	obsMode (description="Observation Mode")		
LongParameter	odNumber (description="Operational day number")		
StringParameter	proposal (description="Proposal name")		
StringParameter	observer (description="Observer name")		
StringParameter	object (description="Target of Observation")		
StringParameter	author (description="author of this product")		
StringParameter	origin (description="site that created the product")		
StringParameter	telescope (description="name of telescope")		
<i>Columns</i>			
<i>table dataset</i>	(name="1", description="null")		
<i>Metadata</i>			
LongParameter	startObsTime (description="null")		
LongParameter	endObsTime (description="null")		
BooleanParameter	maxFreqDrift (description="Inacceptable maximum drift in the frequency grid detected.")		
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrum-Dataset")		
<i>Columns</i>			
<i>Long1d</i>	obsTime (description="null", quantity="none")		
<i>Double2d</i>	frequency_1 (description="null", quantity="none")		
<i>Double2d</i>	frequency_2 (description="null", quantity="none")		
<i>Double2d</i>	frequency_3 (description="null", quantity="none")		
<i>Double2d</i>	frequency_4 (description="null", quantity="none")		
<i>Double1d</i>	drift (description="null", quantity="none")		

2.88. HIFICAL Product - HRS Spectrum Dataset

<i>product (type="herschel.ia.dataset.Product(HifiSpectrumDataset)", description="HRS Spectrum Dataset")</i>			
<i>Metadata</i>			
StringParameter	type (description="Product Type Identification")		
StringParameter	creator (description="Generator of this product")		
DateParameter	creationDate (description="Creation date of this product")		
StringParameter	description (description="Name of this product")		
StringParameter	instrument (description="Instrument attached to this product")		
StringParameter	modelName (description="Model name attached to this product")		
DateParameter	startDate (description="Start date of this product")		
DateParameter	endDate (description="End date of this product")		

StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of channels")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="deg")

StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
LongParameter	loadInterval (description="Load period in seconds", quantity="s")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	pattAngle (description="Spectral map rotation angle", quantity="degrees")
DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")
DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
LongParameter	n_cycles (description="Number of cycle in the map", quantity="degrees")
LongParameter	n_linesperscan (description="Number of lines per scan", quantity="degrees")
LongParameter	superSampling (description="Supersampling factor in the map", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 3 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 3 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 3 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 3 (100%) spectra", quantity="degrees")

BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
BooleanParameter	Valid (description="HRS spectrum contains at least one subband", quantity="degrees")
LongParameter	subbands (description="Number of subbands", quantity="degrees")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="degrees")
StringParameter	wavename (description="Actual name of the WaveColumn", quantity="degrees")
DoubleParameter	channelSpacing (description="Delta of frequency in MHz between 2 points of a HRS spectrum", quantity="MHz")
DoubleParameter	resolution (description="HRS resolution when a Hanning windowing is used, i.e. the channelSpacing * 2", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrumDataset", quantity="MHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")
BooleanParameter	mkOffProc (description="Used in OFF computation", quantity="GHz")
DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="GHz")
DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="GHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="m2")
StringParameter	temperatureScale (description="Temperature scale in use", quantity="m2")
StringParameter	sideband (description="status: upper or lower side band", quantity="m2")
StringParameter	gainMethod (description="Method used to parametrize the sideband gains coefficients.", quantity="m2")
DoubleParameter	lsbGain (description="Sideband gain level applied in the given lower side band spectrum.", quantity="m2")
DoubleParameter	lsbGain_0 (description="Sideband gain polynomial coefficients 0 applied.", quantity="m2")
DoubleParameter	lsbGain_1 (description="Sideband gain polynomial coefficients 1 applied.", quantity="m2")
DoubleParameter	lsbGain_2 (description="Sideband gain polynomial coefficients 2 applied.", quantity="m2")
DoubleParameter	lsbGain_3 (description="Sideband gain polynomial coefficients 3 applied.", quantity="m2")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="m2")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="m2")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="m2")

LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="m2")
DoubleParameter	resolution_resampled (description="Approximate resolution after resampling.", quantity="MHz")
DoubleParameter	frequencyWidth (description="The spacing of the frequency grids after resampling.", quantity="GHz")
DoubleParameter	hpbwAssumed (description="HPBW assumed by doGridding, typically unequal to physical HPBW (metadatum hpbw)", quantity="arcsec")
StringParameter	fileName (description="filename for exporting purposes", quantity="arcsec")
<i>Columns</i>	
<i>table dataset</i>	(name="0001", description="HRS Spectrum Dataset")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of channels")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")

StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
LongParameter	loadInterval (description="Load period in seconds", quantity="s")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	pattAngle (description="Spectral map rotation angle", quantity="degrees")
DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")
DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
LongParameter	n_cycles (description="Number of cycle in the map", quantity="degrees")
LongParameter	n_linesperscan (description="Number of lines per scan", quantity="degrees")
LongParameter	superSampling (description="Supersampling factor in the map", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")

BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 3 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 3 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 3 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 3 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
BooleanParameter	Valid (description="HRS spectrum contains at least one subband", quantity="degrees")
LongParameter	subbands (description="Number of subbands", quantity="degrees")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="degrees")
StringParameter	wavename (description="Actual name of the WaveColumn", quantity="degrees")
DoubleParameter	channelSpacing (description="Delta of frequency in MHz between 2 points of a HRS spectrum", quantity="MHz")
DoubleParameter	resolution (description="HRS resolution when a Hanning windowing is used, i.e. the channelSpacing * 2", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrum-Dataset", quantity="MHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")
BooleanParameter	mkOffProc (description="Used in OFF computation", quantity="GHz")
DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="GHz")

DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="GHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="m2")
StringParameter	temperatureScale (description="Temperature scale in use", quantity="m2")
StringParameter	sideband (description="status: upper or lower side band", quantity="m2")
StringParameter	gainMethod (description="Method used to parametrize the sideband gains coefficients.", quantity="m2")
DoubleParameter	lsbGain (description="Sideband gain level applied in the given lower side band spectrum.", quantity="m2")
DoubleParameter	lsbGain_0 (description="Sideband gain polynomial coefficients 0 applied.", quantity="m2")
DoubleParameter	lsbGain_1 (description="Sideband gain polynomial coefficients 1 applied.", quantity="m2")
DoubleParameter	lsbGain_2 (description="Sideband gain polynomial coefficients 2 applied.", quantity="m2")
DoubleParameter	lsbGain_3 (description="Sideband gain polynomial coefficients 3 applied.", quantity="m2")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="m2")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="m2")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="m2")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="m2")
DoubleParameter	resolution_resampled (description="Approximate resolution after resampling.", quantity="MHz")
DoubleParameter	frequencyWidth (description="The spacing of the frequency grids after resampling.", quantity="GHz")
DoubleParameter	hpbwAssumed (description="HPBW assumed by doGridding, typically unequal to physical HPBW (metadatum hpbw)", quantity="arcsec")
<i>Columns</i>	
<i>Double2d</i>	flux_1 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	lsbfrequency_1 (description="Lower sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_1 (description="null", quantity="none")
<i>Int2d</i>	flag_1 (description="null", quantity="none")
<i>Double2d</i>	flux_2 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	lsbfrequency_2 (description="Lower sideband frequency", quantity="GHz")

<i>Double2d</i>	weight_2 (description="null", quantity="none")
<i>Int2d</i>	flag_2 (description="null", quantity="none")
<i>Int1d</i>	rasterLineNum (description="Raster line number", quantity="1")
<i>Double1d</i>	cmd_chopper (description="Commanded chopper positions", quantity="none")
<i>Double1d</i>	posAngle (description="Position Angle", quantity="deg")
<i>Int2d</i>	colorIndex (description="null", quantity="none")
<i>Int1d</i>	nodCycleNum (description="Switching/nodding cycle number", quantity="1")
<i>Int1d</i>	bitshift (description="Bit Shift", quantity="none")
<i>Int2d</i>	type (description="null", quantity="none")
<i>Int2d</i>	resolution (description="null", quantity="none")
<i>Bool2d</i>	blockselection (description="Block Selection", quantity="none")
<i>String1d</i>	Buffer_S (description="Buffer for ACS integration : BufferA/BufferB", quantity="none")
<i>Double1d</i>	longitudeError (description="longitude errors", quantity="arcsec")
<i>Int1d</i>	buffer (description="Integration Buffer", quantity="none")
<i>Double1d</i>	longitude (description="longitude (RA in equatorial coord)", quantity="deg")
<i>Double1d</i>	frequency_monitor (description="LSU Frequency Monitor", quantity="MHz")
<i>Double2d</i>	Attenuators (description="IRM attenuator values : 0-15.5 dB", quantity="dB")
<i>Int1d</i>	scanLineNum (description="Scan line number", quantity="1")
<i>Double2d</i>	LO_F (description="LO Frequency values", quantity="MHz")
<i>Int1d</i>	bbtype (description="Building Block Type", quantity="none")
<i>Int1d</i>	customMapPointNum (description="Custom map pointing number", quantity="1")
<i>Int2d</i>	sampler (description="null", quantity="none")
<i>Int1d</i>	nrbytes (description="Number of Bytes", quantity="none")
<i>Int2d</i>	LO_S (description="Status of the LO : Locked (=1) / Unlocked (=0)", quantity="none")
<i>Int2d</i>	channels (description="null", quantity="none")
<i>Long1d</i>	packetTime (description="Packetization Time", quantity="none")
<i>Double2d</i>	integrationTime (description="Integration duration in seconds", quantity="s")
<i>Int1d</i>	integrations (description="Number of Integrations", quantity="none")
<i>Double1d</i>	Chopper (description="Actual chopper positions", quantity="none")
<i>Double2d</i>	hot_cold (description="Hot and cold temperatures of the Blackbody Calibrator", quantity="K")
<i>Double1d</i>	latitude (description="latitude (Decl in equatorial coord)", quantity="deg")
<i>Int2d</i>	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")

<i>Double1d</i>	MJC_Hor (description="Calibrated mixer junction current, horizontal band 1", quantity="mA")
<i>Double1d</i>	posAngleError (description="Position Angle errors", quantity="arc-sec")
<i>String1d</i>	Pol_S (description="Polar used : H/V", quantity="none")
<i>Int1d</i>	rasterColumnNum (description="Raster Column number", quantity="1")
<i>String1d</i>	Unit_ID_S (description="Unit used : QM/FM", quantity="none")
<i>Double1d</i>	LoFrequency_measured (description="The LO frequency possibly adjusted for Doppler shifts in the data.", quantity="GHz")
<i>Int2d</i>	cuts (description="null", quantity="none")
<i>Long1d</i>	obsTime (description="Observation Time (corrected)", quantity="none")
<i>Double1d</i>	MJC_Ver (description="Calibrated mixer junction current, vertical band 1", quantity="mA")
<i>Int1d</i>	rowflag (description="null", quantity="none")
<i>String1d</i>	Switch_S (description="Status of the input IF Switch : H/V", quantity="none")
<i>Double1d</i>	velocity_hso_3 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	latitudeError (description="latitude errors", quantity="arcsec")
<i>Bool1d</i>	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
<i>Long1d</i>	hkFlag (description="{HF_AV2_G_SIF1_V=17, HF_AH1_MXBIAS_C=0, HF_AH1_MXMG_C=4, HF_AV2_G_SIF3_V=21, HF_AH1_DPACT_V=10, HF_AV2_G_SIF2_V=19, HF_AH2_G_SIF3_V=20, HF_AH2_G_SIF2_V=18, HF_AH2_G_SIF1_V=16, HF_AH2_G_FIF1_V=12, HF_AH2_G_FIF2_V=14, HF_AV1_MXMG_V=7, HF_AP_SCHS_CT=22, HF_AV1_MXBIAS_V=3, HF_AV1_DPACT_C=27, HL_R_M1_1A_C=28, HF_APR_CH_ROT=8, HF_APR_SCC_S_CT=24, HF_AV2_G_FIF1_V=13, HF_AV2_G_FIF2_V=15, HL_R_M1_7A_C=28, HF_AH1_MXMG_V=6, HF_AR_SCHS_C_T=23, HF_APR_S2K_CT=25, HL_R_M1_7B_C=28, HF_AH1_MXBIAS_V=2, HF_AV1_MXBIAS_C=1, HF_AV1_MXMG_C=5, HF_DPR_CH_ROT2=9, HF_AH1_DPACT_C=26, HL_R_M2_3B_C=28, HF_AV1_DPACT_V=11}", quantity="none")
<i>Double1d</i>	velocity_hso_1 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	latitude_cmd (description="latitude (Decl in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	velocity_hso_2 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	longitude_cmd (description="longitude (RA in equatorial coord) average H and V", quantity="deg")
<i>Int2d</i>	LO_F_raw (description="LO Frequency raw values", quantity="MHz")

				<i>DoubleId</i> LoFrequency (description="The LO frequency possibly adjusted for Doppler shifts in the data.", quantity="GHz")

2.89. HIFICAL Product - HRS Spectrum Dataset

<i>product (type="herschel.ia.dataset.Product(HifiSpectrumDataset)", description="HRS Spectrum Dataset")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of channels")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")

StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
LongParameter	loadInterval (description="Load period in seconds", quantity="s")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	pattAngle (description="Spectral map rotation angle", quantity="degrees")
DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")
DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
LongParameter	n_cycles (description="Number of cycle in the map", quantity="degrees")
LongParameter	n_linesperscan (description="Number of lines per scan", quantity="degrees")
LongParameter	superSampling (description="Supersampling factor in the map", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")

LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 3 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 3 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 3 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 3 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
BooleanParameter	Valid (description="HRS spectrum contains at least one subband", quantity="degrees")
LongParameter	subbands (description="Number of subbands", quantity="degrees")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="degrees")
StringParameter	wavename (description="Actual name of the WaveColumn", quantity="degrees")
DoubleParameter	channelSpacing (description="Delta of frequency in MHz between 2 points of a HRS spectrum", quantity="MHz")
DoubleParameter	resolution (description="HRS resolution when a Hanning windowing is used, i.e. the channelSpacing * 2", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrumDataset", quantity="MHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")
BooleanParameter	mkOffProc (description="Used in OFF computation", quantity="GHz")
DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="GHz")
DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="GHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="m2")

StringParameter	temperatureScale (description="Temperature scale in use", quantity="m2")
StringParameter	sideband (description="status: upper or lower side band", quantity="m2")
StringParameter	gainMethod (description="Method used to parametrize the sideband gains coefficients.", quantity="m2")
DoubleParameter	usbGain (description="Sideband gain level applied in the given upper side band spectrum.", quantity="m2")
DoubleParameter	usbGain_0 (description="Sideband gain polynomial coefficients 0 applied.", quantity="m2")
DoubleParameter	usbGain_1 (description="Sideband gain polynomial coefficients 1 applied.", quantity="m2")
DoubleParameter	usbGain_2 (description="Sideband gain polynomial coefficients 2 applied.", quantity="m2")
DoubleParameter	usbGain_3 (description="Sideband gain polynomial coefficients 3 applied.", quantity="m2")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="m2")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="m2")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="m2")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="m2")
DoubleParameter	resolution_resampled (description="Approximate resolution after resampling.", quantity="MHz")
DoubleParameter	frequencyWidth (description="The spacing of the frequency grids after resampling.", quantity="GHz")
DoubleParameter	hpbwAssumed (description="HPBW assumed by doGridding, typically unequal to physical HPBW (metadatum hpbw)", quantity="arcsec")
StringParameter	fileName (description="filename for exporting purposes", quantity="arcsec")
<i>Columns</i>	
<i>table dataset</i>	(name="0001", description="HRS Spectrum Dataset")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of channels")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")

LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
LongParameter	loadInterval (description="Load period in seconds", quantity="s")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	pattAngle (description="Spectral map rotation angle", quantity="degrees")

DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")
DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
LongParameter	n_cycles (description="Number of cycle in the map", quantity="degrees")
LongParameter	n_linesperscan (description="Number of lines per scan", quantity="degrees")
LongParameter	superSampling (description="Supersampling factor in the map", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 3 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 3 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 3 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 3 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
BooleanParameter	Valid (description="HRS spectrum contains at least one subband", quantity="degrees")
LongParameter	subbands (description="Number of subbands", quantity="degrees")

BooleanParameter	hassubbands (description="Whether it has subbands", quantity="degrees")
StringParameter	wavename (description="Actual name of the WaveColumn", quantity="degrees")
DoubleParameter	channelSpacing (description="Delta of frequency in MHz between 2 points of a HRS spectrum", quantity="MHz")
DoubleParameter	resolution (description="HRS resolution when a Hanning windowing is used, i.e. the channelSpacing * 2", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrum-Dataset", quantity="MHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")
BooleanParameter	mkOffProc (description="Used in OFF computation", quantity="GHz")
DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="GHz")
DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="GHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="m2")
StringParameter	temperatureScale (description="Temperature scale in use", quantity="m2")
StringParameter	sideband (description="status: upper or lower side band", quantity="m2")
StringParameter	gainMethod (description="Method used to parametrize the sideband gains coefficients.", quantity="m2")
DoubleParameter	usbGain (description="Sideband gain level applied in the given upper side band spectrum.", quantity="m2")
DoubleParameter	usbGain_0 (description="Sideband gain polynomial coefficients 0 applied.", quantity="m2")
DoubleParameter	usbGain_1 (description="Sideband gain polynomial coefficients 1 applied.", quantity="m2")
DoubleParameter	usbGain_2 (description="Sideband gain polynomial coefficients 2 applied.", quantity="m2")
DoubleParameter	usbGain_3 (description="Sideband gain polynomial coefficients 3 applied.", quantity="m2")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="m2")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="m2")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="m2")

LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="m2")
DoubleParameter	resolution_resampled (description="Approximate resolution after resampling.", quantity="MHz")
DoubleParameter	frequencyWidth (description="The spacing of the frequency grids after resampling.", quantity="GHz")
DoubleParameter	hpbwAssumed (description="HPBW assumed by doGridding, typically unequal to physical HPBW (metadatum hpbw)", quantity="arcsec")
<i>Columns</i>	
<i>Double2d</i>	flux_1 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	usbfrequency_1 (description="Upper sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_1 (description="null", quantity="none")
<i>Int2d</i>	flag_1 (description="null", quantity="none")
<i>Double2d</i>	flux_2 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	usbfrequency_2 (description="Upper sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_2 (description="null", quantity="none")
<i>Int2d</i>	flag_2 (description="null", quantity="none")
<i>Int1d</i>	rasterLineNum (description="Raster line number", quantity="1")
<i>Double1d</i>	cmd_chopper (description="Commanded chopper positions", quantity="none")
<i>Double1d</i>	posAngle (description="Position Angle", quantity="deg")
<i>Int2d</i>	colorIndex (description="null", quantity="none")
<i>Int1d</i>	nodCycleNum (description="Switching/nodding cycle number", quantity="1")
<i>Int1d</i>	bitshift (description="Bit Shift", quantity="none")
<i>Int2d</i>	type (description="null", quantity="none")
<i>Int2d</i>	resolution (description="null", quantity="none")
<i>Bool2d</i>	blockselection (description="Block Selection", quantity="none")
<i>String1d</i>	Buffer_S (description="Buffer for ACS integration : BufferA/BufferB", quantity="none")
<i>Double1d</i>	longitudeError (description="longitude errors", quantity="arcsec")
<i>Int1d</i>	buffer (description="Integration Buffer", quantity="none")
<i>Double1d</i>	longitude (description="longitude (RA in equatorial coord)", quantity="deg")
<i>Double1d</i>	frequency_monitor (description="LSU Frequency Monitor", quantity="MHz")
<i>Double2d</i>	Attenuators (description="IRM attenuator values : 0-15.5 dB", quantity="dB")
<i>Int1d</i>	scanLineNum (description="Scan line number", quantity="1")
<i>Double2d</i>	LO_F (description="LO Frequency values", quantity="MHz")
<i>Int1d</i>	bbtype (description="Building Block Type", quantity="none")
<i>Int1d</i>	customMapPointNum (description="Custom map pointing number", quantity="1")

<i>Int2d</i>	sampler (description="null", quantity="none")
<i>Int1d</i>	nrbytes (description="Number of Bytes", quantity="none")
<i>Int2d</i>	LO_S (description="Status of the LO : Locked (=1) / Unlocked (=0)", quantity="none")
<i>Int2d</i>	channels (description="null", quantity="none")
<i>Long1d</i>	packetTime (description="Packetization Time", quantity="none")
<i>Double2d</i>	integrationTime (description="Integration duration in seconds", quantity="s")
<i>Int1d</i>	integrations (description="Number of Integrations", quantity="none")
<i>Double1d</i>	Chopper (description="Actual chopper positions", quantity="none")
<i>Double2d</i>	hot_cold (description="Hot and cold temperatures of the Blackbody Calibrator", quantity="K")
<i>Double1d</i>	latitude (description="latitude (Decl in equatorial coord)", quantity="deg")
<i>Int2d</i>	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")
<i>Double1d</i>	MJC_Hor (description="Calibrated mixer junction current, horizontal band 1", quantity="mA")
<i>Double1d</i>	posAngleError (description="Position Angle errors", quantity="arc-sec")
<i>String1d</i>	Pol_S (description="Polar used : H/V", quantity="none")
<i>Int1d</i>	rasterColumnNum (description="Raster Column number", quantity="1")
<i>String1d</i>	Unit_ID_S (description="Unit used : QM/FM", quantity="none")
<i>Double1d</i>	LoFrequency_measured (description="The LO frequency possibly adjusted for Doppler shifts in the data.", quantity="GHz")
<i>Int2d</i>	cuts (description="null", quantity="none")
<i>Long1d</i>	obsTime (description="Observation Time (corrected)", quantity="none")
<i>Double1d</i>	MJC_Ver (description="Calibrated mixer junction current, vertical band 1", quantity="mA")
<i>Int1d</i>	rowflag (description="null", quantity="none")
<i>String1d</i>	Switch_S (description="Status of the input IF Switch : H/V", quantity="none")
<i>Double1d</i>	velocity_hso_3 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	latitudeError (description="latitude errors", quantity="arcsec")
<i>Bool1d</i>	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
<i>Long1d</i>	hkFlag (description="{HF_AV2_G_SIF1_V=17, HF_AH1_MXBIAS_C=0, HF_AH1_MXMG_C=4, HF_AV2_G_SIF3_V=21, HF_AH1_DPACT_V=10, HF_AV2_G_SIF2_V=19, HF_AH2_G_SIF3_V=20, HF_AH2_G_SIF2_V=18, HF_AH2_G_SIF1_V=16, HF_AH2_G_FIF1_V=12, HF_AH2_G_FIF2_V=14, HF_AV1_MXMG_V=7, HF_AP_SCHS_CT=22, HF_AV1_MXBIAS_V=3, HF_AV1_DPACT_C=27, HL_R_M1_1A_C=28, HF_APR_CH_ROT=8, HF_APR_SCC-

	S_CT=24, HF_AV2_G_FIF1_V=13, HF_AV2_G_FIF2_V=15, HL_R_M1_7A_C=28, HF_AH1_MXMG_V=6, HF_AR_SCHS_C-T=23, HF_APR_S2K_CT=25, HL_R_M1_7B_C=28, HF_AH1_MXBIAS_V=2, HF_AV1_MXBIAS_C=1, HF_AV1_MXMG_C=5, HF_DPR_CH_ROT2=9, HF_AH1_DPACT_C=26, HL_R_M2_3B_C=28, HF_AV1_DPACT_V=11}", quantity="none")
<i>Double1d</i>	velocity_hso_1 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	latitude_cmd (description="latitude (Decl in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	velocity_hso_2 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	longitude_cmd (description="longitude (RA in equatorial coord) average H and V", quantity="deg")
<i>Int2d</i>	LO_F_raw (description="LO Frequency raw values", quantity="MHz")
<i>Double1d</i>	LoFrequency (description="The LO frequency possibly adjusted for Doppler shifts in the data.", quantity="GHz")

2.90. HIFICAL Product - WBS Spectrum Dataset

<i>product (type="herchel.ia.dataset.Product(HifiSpectrumDataset)", description="WBS Spectrum Dataset")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of channels")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")
LongParameter	OBS-revision (description="On Board Software revision")

LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
LongParameter	loadInterval (description="Load period in seconds", quantity="s")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	pattAngle (description="Spectral map rotation angle", quantity="degrees")
DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")
DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")

DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
LongParameter	n_cycles (description="Number of cycle in the map", quantity="degrees")
LongParameter	n_linesperscan (description="Number of lines per scan", quantity="degrees")
LongParameter	superSampling (description="Supersampling factor in the map", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 3 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 3 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 3 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 3 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
StringParameter	badLoBand_4 (description="bad Lo in band", quantity="degrees")
LongParameter	Pipeline applied (description="Define which pipeline modules have been applied to the data.\u000A bit 0 = not used \u000A bit 1 = Scan count correction \u000A bit 3 = Dark correction \u000A bit 4 = Non Linearity correction \u000A bit 5 = Zero correction \u000A bit 6 = Frequency calibration applied \u000A", quantity="degrees")
BooleanParameter	isMasked (description="Bad Pixels have been flagged", quantity="degrees")
DoubleParameter	resolution (description="Mean resolution from all combs spectra", quantity="MHz")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="MHz")

StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrumDataset", quantity="MHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")
BooleanParameter	mkOffProc (description="Used in OFF computation", quantity="GHz")
DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="GHz")
DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="GHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="m2")
StringParameter	temperatureScale (description="Temperature scale in use", quantity="m2")
StringParameter	sideband (description="status: upper or lower side band", quantity="m2")
StringParameter	gainMethod (description="Method used to parametrize the sideband gains coefficients.", quantity="m2")
DoubleParameter	lsbGain (description="Sideband gain level applied in the given lower side band spectrum.", quantity="m2")
DoubleParameter	lsbGain_0 (description="Sideband gain polynomial coefficients 0 applied.", quantity="m2")
DoubleParameter	lsbGain_1 (description="Sideband gain polynomial coefficients 1 applied.", quantity="m2")
DoubleParameter	lsbGain_2 (description="Sideband gain polynomial coefficients 2 applied.", quantity="m2")
DoubleParameter	lsbGain_3 (description="Sideband gain polynomial coefficients 3 applied.", quantity="m2")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="m2")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="m2")
LongParameter	subbandlength_3 (description="Length of subband 3", quantity="m2")
LongParameter	subbandlength_4 (description="Length of subband 4", quantity="m2")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="m2")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="m2")
LongParameter	subbandstart_3 (description="Starting channel for subband 3", quantity="m2")
LongParameter	subbandstart_4 (description="Starting channel for subband 4", quantity="m2")
DoubleParameter	resolution_resampled (description="Approximate resolution after resampling.", quantity="MHz")
DoubleParameter	frequencyWidth (description="The spacing of the frequency grids after resampling.", quantity="GHz")
DoubleParameter	hpbwAssumed (description="HPBW assumed by doGridding, typically unequal to physical HPBW (metadatum hpbw)", quantity="arcsec")
StringParameter	fileName (description="filename for exporting purposes", quantity="arcsec")

<i>Columns</i>	
<i>table dataset</i>	(name="0001", description="WBS Spectrum Dataset")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of channels")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")

StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
LongParameter	loadInterval (description="Load period in seconds", quantity="s")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	pattAngle (description="Spectral map rotation angle", quantity="degrees")
DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")
DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
LongParameter	n_cycles (description="Number of cycle in the map", quantity="degrees")
LongParameter	n_linesperscan (description="Number of lines per scan", quantity="degrees")
LongParameter	superSampling (description="Supersampling factor in the map", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")

LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 3 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 3 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 3 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 3 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
StringParameter	badLoBand_4 (description="bad Lo in band", quantity="degrees")
LongParameter	Pipeline applied (description="Define which pipeline modules have been applied to the data.\u000A bit 0 = not used \u000A bit 1 = Scan count correction \u000A bit 3 = Dark correction \u000A bit 4 = Non Linearity correction \u000A bit 5 = Zero correction \u000A bit 6 = Frequency calibration applied \u000A", quantity="degrees")
BooleanParameter	isMasked (description="Bad Pixels have been flagged", quantity="degrees")
DoubleParameter	resolution (description="Mean resolution from all combs spectra", quantity="MHz")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrum-Dataset", quantity="MHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")
BooleanParameter	mkOffProc (description="Used in OFF computation", quantity="GHz")
DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="GHz")
DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="GHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")

DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="m2")
StringParameter	temperatureScale (description="Temperature scale in use", quantity="m2")
StringParameter	sideband (description="status: upper or lower side band", quantity="m2")
StringParameter	gainMethod (description="Method used to parametrize the sideband gains coefficients.", quantity="m2")
DoubleParameter	lsbGain (description="Sideband gain level applied in the given lower side band spectrum.", quantity="m2")
DoubleParameter	lsbGain_0 (description="Sideband gain polynomial coefficients 0 applied.", quantity="m2")
DoubleParameter	lsbGain_1 (description="Sideband gain polynomial coefficients 1 applied.", quantity="m2")
DoubleParameter	lsbGain_2 (description="Sideband gain polynomial coefficients 2 applied.", quantity="m2")
DoubleParameter	lsbGain_3 (description="Sideband gain polynomial coefficients 3 applied.", quantity="m2")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="m2")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="m2")
LongParameter	subbandlength_3 (description="Length of subband 3", quantity="m2")
LongParameter	subbandlength_4 (description="Length of subband 4", quantity="m2")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="m2")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="m2")
LongParameter	subbandstart_3 (description="Starting channel for subband 3", quantity="m2")
LongParameter	subbandstart_4 (description="Starting channel for subband 4", quantity="m2")
DoubleParameter	resolution_resampled (description="Approximate resolution after resampling.", quantity="MHz")
DoubleParameter	frequencyWidth (description="The spacing of the frequency grids after resampling.", quantity="GHz")
DoubleParameter	hpbwAssumed (description="HPBW assumed by doGridding, typically unequal to physical HPBW (metadatum hpbw)", quantity="arcsec")
<i>Columns</i>	
<i>Double2d</i>	flux_1 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	lsbfrequency_1 (description="Lower sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_1 (description="null", quantity="none")
<i>Int2d</i>	flag_1 (description="null", quantity="none")
<i>Double2d</i>	flux_2 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	lsbfrequency_2 (description="Lower sideband frequency", quantity="GHz")

<i>Double2d</i>	weight_2 (description="null", quantity="none")
<i>Int2d</i>	flag_2 (description="null", quantity="none")
<i>Double2d</i>	flux_3 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	lsbfrequency_3 (description="Lower sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_3 (description="null", quantity="none")
<i>Int2d</i>	flag_3 (description="null", quantity="none")
<i>Double2d</i>	flux_4 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	lsbfrequency_4 (description="Lower sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_4 (description="null", quantity="none")
<i>Int2d</i>	flag_4 (description="null", quantity="none")
<i>Int1d</i>	rasterLineNum (description="Raster line number", quantity="1")
<i>Double1d</i>	cmd_chopper (description="Commanded chopper positions", quantity="none")
<i>Double1d</i>	posAngle (description="Position Angle", quantity="deg")
<i>Double1d</i>	latitude (description="latitude (Decl in equatorial coord)", quantity="deg")
<i>Int1d</i>	nodCycleNum (description="Switching/nodding cycle number", quantity="1")
<i>Int2d</i>	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")
<i>Int1d</i>	bitshift (description="Bit Shift", quantity="none")
<i>Double1d</i>	MJC_Hor (description="Calibrated mixer junction current, horizontal band 1", quantity="mA")
<i>Double1d</i>	posAngleError (description="Position Angle errors", quantity="arcsec")
<i>Double1d</i>	longitudeError (description="longitude errors", quantity="arcsec")
<i>Int1d</i>	scancount (description="Integrated Scan Count", quantity="none")
<i>Int1d</i>	buffer (description="Integration Buffer", quantity="none")
<i>Int1d</i>	rasterColumnNum (description="Raster Column number", quantity="1")
<i>Double1d</i>	LoFrequency_measured (description="The LO frequency possibly adjusted for Doppler shifts in the data.", quantity="GHz")
<i>Double1d</i>	longitude (description="longitude (RA in equatorial coord)", quantity="deg")
<i>Double1d</i>	frequency_monitor (description="LSU Frequency Monitor", quantity="MHz")
<i>Int1d</i>	scanLineNum (description="Scan line number", quantity="1")
<i>Long1d</i>	obsTime (description="Observation Time", quantity="none")
<i>Double1d</i>	MJC_Ver (description="Calibrated mixer junction current, vertical band 1", quantity="mA")
<i>Int1d</i>	rowflag (description="null", quantity="none")
<i>Int1d</i>	bbtype (description="Building Block Type", quantity="none")
<i>Int1d</i>	IN_ATT (description="null", quantity="none")

<i>Int1d</i>	customMapPointNum (description="Custom map pointing number", quantity="1")
<i>Double1d</i>	velocity_hso_3 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	latitudeError (description="latitude errors", quantity="arcsec")
<i>Bool1d</i>	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
<i>Long1d</i>	hkFlag (description="{HF_AV2_G_SIF1_V=17, HF_AH1_MXBIA_S_C=0, HF_AH1_MXMG_C=4, HF_AV2_G_SIF3_V=21, HF_AH1_DPACT_V=10, HF_AV2_G_SIF2_V=19, HF_AH2_G_SIF3_V=20, HF_AH2_G_SIF2_V=18, HF_AH2_G_SIF1_V=16, HF_AH2_G_FIF1_V=12, HF_AH2_G_FIF2_V=14, HF_AV1_MXMG_V=7, HF_AP_SCHS_CT=22, HF_AV1_MXBIA_S_V=3, HF_AV1_DPACT_C=27, HL_R_M1_1A_C=28, HF_APR_CH_ROT=8, HF_APR_SCC_S_CT=24, HF_AV2_G_FIF1_V=13, HF_AV2_G_FIF2_V=15, HL_R_M1_7A_C=28, HF_AH1_MXMG_V=6, HF_AR_SCHS_C_T=23, HF_APR_S2K_CT=25, HL_R_M1_7B_C=28, HF_AH1_MXBIA_S_V=2, HF_AV1_MXBIA_S_C=1, HF_AV1_MXMG_C=5, HF_DPR_CH_ROT2=9, HF_AH1_DPACT_C=26, HL_R_M2_3B_C=28, HF_AV1_DPACT_V=11}", quantity="none")
<i>Double1d</i>	velocity_hso_1 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	latitude_cmd (description="latitude (Decl in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	velocity_hso_2 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Int1d</i>	nrbytes (description="Number of Bytes", quantity="none")
<i>Long1d</i>	packetTime (description="Packetization Time", quantity="none")
<i>Double1d</i>	longitude_cmd (description="longitude (RA in equatorial coord) average H and V", quantity="deg")
<i>Int2d</i>	badLo (description="bit 0=Bad LO; bit 1=Weak_spur; bit 2=Strong_spur; bit 3=Strong_instability; bit 4=IF_saturation;", quantity="none")
<i>Double1d</i>	LoFrequency (description="The LO frequency possibly adjusted for Doppler shifts in the data.", quantity="GHz")
<i>Int2d</i>	Band_ATT (description="null", quantity="none")
<i>Double1d</i>	integrationTime (description="Integration duration in seconds", quantity="s")
<i>Int1d</i>	integrations (description="Number of Integrations", quantity="none")
<i>Double1d</i>	Chopper (description="Actual chopper positions", quantity="none")
<i>Double2d</i>	hot_cold (description="Hot and cold temperatures of the Blackbody Calibrator", quantity="K")

2.91. HIFICAL Product - WBS Spectrum Dataset

<i>product (type="herschel.ia.dataset.Product(HifiSpectrumDataset)", description="WBS Spectrum Dataset")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of channels")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")

LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
LongParameter	loadInterval (description="Load period in seconds", quantity="s")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	pattAngle (description="Spectral map rotation angle", quantity="degrees")
DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")
DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
LongParameter	n_cycles (description="Number of cycle in the map", quantity="degrees")
LongParameter	n_linesperscan (description="Number of lines per scan", quantity="degrees")
LongParameter	superSampling (description="Supersampling factor in the map", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")

LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 3 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 3 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 3 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 3 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
StringParameter	badLoBand_4 (description="bad Lo in band", quantity="degrees")
LongParameter	Pipeline applied (description="Define which pipeline modules have been applied to the data.\u000A bit 0 = not used \u000A bit 1 = Scan count correction \u000A bit 3 = Dark correction \u000A bit 4 = Non Linearity correction \u000A bit 5 = Zero correction \u000A bit 6 = Frequency calibration applied \u000A", quantity="degrees")
BooleanParameter	isMasked (description="Bad Pixels have been flagged", quantity="degrees")
DoubleParameter	resolution (description="Mean resolution from all combs spectra", quantity="MHz")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrumDataset", quantity="MHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")
BooleanParameter	mkOffProc (description="Used in OFF computation", quantity="GHz")
DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="GHz")
DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="GHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="m2")
StringParameter	temperatureScale (description="Temperature scale in use", quantity="m2")
StringParameter	sideband (description="status: upper or lower side band", quantity="m2")

StringParameter	gainMethod (description="Method used to parametrize the sideband gains coefficients.", quantity="m2")
DoubleParameter	usbGain (description="Sideband gain level applied in the given upper side band spectrum.", quantity="m2")
DoubleParameter	usbGain_0 (description="Sideband gain polynomial coefficients 0 applied.", quantity="m2")
DoubleParameter	usbGain_1 (description="Sideband gain polynomial coefficients 1 applied.", quantity="m2")
DoubleParameter	usbGain_2 (description="Sideband gain polynomial coefficients 2 applied.", quantity="m2")
DoubleParameter	usbGain_3 (description="Sideband gain polynomial coefficients 3 applied.", quantity="m2")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="m2")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="m2")
LongParameter	subbandlength_3 (description="Length of subband 3", quantity="m2")
LongParameter	subbandlength_4 (description="Length of subband 4", quantity="m2")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="m2")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="m2")
LongParameter	subbandstart_3 (description="Starting channel for subband 3", quantity="m2")
LongParameter	subbandstart_4 (description="Starting channel for subband 4", quantity="m2")
DoubleParameter	resolution_resampled (description="Approximate resolution after resampling.", quantity="MHz")
DoubleParameter	frequencyWidth (description="The spacing of the frequency grids after resampling.", quantity="GHz")
DoubleParameter	hpbwAssumed (description="HPBW assumed by doGridding, typically unequal to physical HPBW (metadatum hpbw)", quantity="arcsec")
StringParameter	fileName (description="filename for exporting purposes", quantity="arcsec")
<i>Columns</i>	
<i>table dataset</i>	(name="0001", description="WBS Spectrum Dataset")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of channels")
StringParameter	wavename (description="Actual name of the WaveColumn")

StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
LongParameter	loadInterval (description="Load period in seconds", quantity="s")

DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	pattAngle (description="Spectral map rotation angle", quantity="degrees")
DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")
DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
LongParameter	n_cycles (description="Number of cycle in the map", quantity="degrees")
LongParameter	n_linesperscan (description="Number of lines per scan", quantity="degrees")
LongParameter	superSampling (description="Supersampling factor in the map", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 3 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 3 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 3 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 3 (100%) spectra", quantity="degrees")

BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
StringParameter	badLoBand_4 (description="bad Lo in band", quantity="degrees")
LongParameter	Pipeline applied (description="Define which pipeline modules have been applied to the data.\u000A bit 0 = not used \u000A bit 1 = Scan count correction \u000A bit 3 = Dark correction \u000A bit 4 = Non Linearity correction \u000A bit 5 = Zero correction \u000A bit 6 = Frequency calibration applied \u000A", quantity="degrees")
BooleanParameter	isMasked (description="Bad Pixels have been flagged", quantity="degrees")
DoubleParameter	resolution (description="Mean resolution from all combs spectra", quantity="MHz")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrum-Dataset", quantity="MHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")
BooleanParameter	mkOffProc (description="Used in OFF computation", quantity="GHz")
DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="GHz")
DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="GHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="m2")
StringParameter	temperatureScale (description="Temperature scale in use", quantity="m2")
StringParameter	sideband (description="status: upper or lower side band", quantity="m2")
StringParameter	gainMethod (description="Method used to parametrize the sideband gains coefficients.", quantity="m2")
DoubleParameter	usbGain (description="Sideband gain level applied in the given upper side band spectrum.", quantity="m2")
DoubleParameter	usbGain_0 (description="Sideband gain polynomial coefficients 0 applied.", quantity="m2")
DoubleParameter	usbGain_1 (description="Sideband gain polynomial coefficients 1 applied.", quantity="m2")
DoubleParameter	usbGain_2 (description="Sideband gain polynomial coefficients 2 applied.", quantity="m2")

DoubleParameter	usbGain_3 (description="Sideband gain polynomial coefficients 3 applied.", quantity="m2")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="m2")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="m2")
LongParameter	subbandlength_3 (description="Length of subband 3", quantity="m2")
LongParameter	subbandlength_4 (description="Length of subband 4", quantity="m2")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="m2")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="m2")
LongParameter	subbandstart_3 (description="Starting channel for subband 3", quantity="m2")
LongParameter	subbandstart_4 (description="Starting channel for subband 4", quantity="m2")
DoubleParameter	resolution_resampled (description="Approximate resolution after resampling.", quantity="MHz")
DoubleParameter	frequencyWidth (description="The spacing of the frequency grids after resampling.", quantity="GHz")
DoubleParameter	hpbwAssumed (description="HPBW assumed by doGridding, typically unequal to physical HPBW (metadatum hpbw)", quantity="arcsec")
<i>Columns</i>	
<i>Double2d</i>	flux_1 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	usbfrequency_1 (description="Upper sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_1 (description="null", quantity="none")
<i>Int2d</i>	flag_1 (description="null", quantity="none")
<i>Double2d</i>	flux_2 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	usbfrequency_2 (description="Upper sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_2 (description="null", quantity="none")
<i>Int2d</i>	flag_2 (description="null", quantity="none")
<i>Double2d</i>	flux_3 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	usbfrequency_3 (description="Upper sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_3 (description="null", quantity="none")
<i>Int2d</i>	flag_3 (description="null", quantity="none")
<i>Double2d</i>	flux_4 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	usbfrequency_4 (description="Upper sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_4 (description="null", quantity="none")
<i>Int2d</i>	flag_4 (description="null", quantity="none")
<i>Int1d</i>	rasterLineNum (description="Raster line number", quantity="1")
<i>Double1d</i>	cmd_chopper (description="Commanded chopper positions", quantity="none")
<i>Double1d</i>	posAngle (description="Position Angle", quantity="deg")

<i>Double1d</i>	latitude (description="latitude (Decl in equatorial coord)", quantity="deg")
<i>Int1d</i>	nodCycleNum (description="Switching/nodding cycle number", quantity="1")
<i>Int2d</i>	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")
<i>Int1d</i>	bitshift (description="Bit Shift", quantity="none")
<i>Double1d</i>	MJC_Hor (description="Calibrated mixer junction current, horizontal band 1", quantity="mA")
<i>Double1d</i>	posAngleError (description="Position Angle errors", quantity="arcsec")
<i>Double1d</i>	longitudeError (description="longitude errors", quantity="arcsec")
<i>Int1d</i>	scancount (description="Integrated Scan Count", quantity="none")
<i>Int1d</i>	buffer (description="Integration Buffer", quantity="none")
<i>Int1d</i>	rasterColumnNum (description="Raster Column number", quantity="1")
<i>Double1d</i>	LoFrequency_measured (description="The LO frequency possibly adjusted for Doppler shifts in the data.", quantity="GHz")
<i>Double1d</i>	longitude (description="longitude (RA in equatorial coord)", quantity="deg")
<i>Double1d</i>	frequency_monitor (description="LSU Frequency Monitor", quantity="MHz")
<i>Int1d</i>	scanLineNum (description="Scan line number", quantity="1")
<i>Long1d</i>	obsTime (description="Observation Time", quantity="none")
<i>Double1d</i>	MJC_Ver (description="Calibrated mixer junction current, vertical band 1", quantity="mA")
<i>Int1d</i>	rowflag (description="null", quantity="none")
<i>Int1d</i>	bbtype (description="Building Block Type", quantity="none")
<i>Int1d</i>	IN_ATT (description="null", quantity="none")
<i>Int1d</i>	customMapPointNum (description="Custom map pointing number", quantity="1")
<i>Double1d</i>	velocity_hso_3 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	latitudeError (description="latitude errors", quantity="arcsec")
<i>Bool1d</i>	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
<i>Long1d</i>	hkFlag (description="{HF_AV2_G_SIF1_V=17, HF_AH1_MXBIAS_C=0, HF_AH1_MXMG_C=4, HF_AV2_G_SIF3_V=21, HF_AH1_DPACT_V=10, HF_AV2_G_SIF2_V=19, HF_AH2_G_SIF3_V=20, HF_AH2_G_SIF2_V=18, HF_AH2_G_SIF1_V=16, HF_AH2_G_FIF1_V=12, HF_AH2_G_FIF2_V=14, HF_AV1_MXMG_V=7, HF_AP_SCHS_CT=22, HF_AV1_MXBIAS_V=3, HF_AV1_DPACT_C=27, HL_R_M1_1A_C=28, HF_APR_CH_ROT=8, HF_APR_SCC_S_CT=24, HF_AV2_G_FIF1_V=13, HF_AV2_G_FIF2_V=15, HL_R_M1_7A_C=28, HF_AH1_MXMG_V=6, HF_AR_SCHS_CT=23, HF_APR_S2K_CT=25, HL_R_M1_7B_C=28, HF_AH1_MXBIAS_V=2, HF_AV1_MXBIAS_C=1,")

	HF_AV1_MXMG_C=5, HF_DPR_CH_ROT2=9, HF_AH1_DPACT_C=26, HL_R_M2_3B_C=28, HF_AV1_DPACT_V=11}", quantity="none")
<i>Double1d</i>	velocity_hso_1 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	latitude_cmd (description="latitude (Decl in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	velocity_hso_2 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Int1d</i>	nrbytes (description="Number of Bytes", quantity="none")
<i>Long1d</i>	packetTime (description="Packetization Time", quantity="none")
<i>Double1d</i>	longitude_cmd (description="longitude (RA in equatorial coord) average H and V", quantity="deg")
<i>Int2d</i>	badLo (description="bit 0=Bad LO; bit 1=Weak_spur; bit 2=Strong_spur; bit 3=Strong_instability; bit 4=IF_saturation;", quantity="none")
<i>Double1d</i>	LoFrequency (description="The LO frequency possibly adjusted for Doppler shifts in the data.", quantity="GHz")
<i>Int2d</i>	Band_ATT (description="null", quantity="none")
<i>Double1d</i>	integrationTime (description="Integration duration in seconds", quantity="s")
<i>Int1d</i>	integrations (description="Number of Integrations", quantity="none")
<i>Double1d</i>	Chopper (description="Actual chopper positions", quantity="none")
<i>Double2d</i>	hot_cold (description="Hot and cold temperatures of the Blackbody Calibrator", quantity="K")

2.92. HIFICAL Product - HRS Spectrum Dataset

<i>product (type="herschel.ia.dataset.Product(HifiSpectrumDataset)", description="HRS Spectrum Dataset")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")

LongParameter	channels (description="Number of Channels")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
LongParameter	loadInterval (description="Load period in seconds", quantity="s")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")

DoubleParameter	pattAngle (description="Spectral map rotation angle", quantity="degrees")
DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")
DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
LongParameter	n_cycles (description="Number of cycle in the map", quantity="degrees")
LongParameter	n_linesperscan (description="Number of lines per scan", quantity="degrees")
LongParameter	superSampling (description="Supersampling factor in the map", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 2 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 2 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 2 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 2 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
BooleanParameter	Valid (description="HRS spectrum contains at least one subband", quantity="degrees")
LongParameter	subbands (description="Number of subbands", quantity="degrees")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="degrees")

StringParameter	wavename (description="Actual name of the WaveColumn", quantity="degrees")
DoubleParameter	channelSpacing (description="Delta of frequency in MHz between 2 points of a HRS spectrum", quantity="MHz")
DoubleParameter	resolution (description="HRS resolution when a Hanning windowing is used, i.e. the channelSpacing * 2", quantity="MHz")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="MHz")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="MHz")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="MHz")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrumDataset", quantity="MHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")
StringParameter	cal_type (description="null", quantity="GHz")
StringParameter	fileName (description="filename for exporting purposes", quantity="GHz")
<i>Columns</i>	
<i>table dataset</i>	(name="0001", description="HRS Spectrum Dataset")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of Channels")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")

StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
LongParameter	loadInterval (description="Load period in seconds", quantity="s")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	pattAngle (description="Spectral map rotation angle", quantity="degrees")
DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")
DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")

DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
LongParameter	n_cycles (description="Number of cycle in the map", quantity="degrees")
LongParameter	n_linesperscan (description="Number of lines per scan", quantity="degrees")
LongParameter	superSampling (description="Supersampling factor in the map", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 2 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 2 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 2 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 2 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
BooleanParameter	Valid (description="HRS spectrum contains at least one subband", quantity="degrees")
LongParameter	subbands (description="Number of subbands", quantity="degrees")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="degrees")
StringParameter	wavename (description="Actual name of the WaveColumn", quantity="degrees")

DoubleParameter	channelSpacing (description="Delta of frequency in MHz between 2 points of a HRS spectrum", quantity="MHz")
DoubleParameter	resolution (description="HRS resolution when a Hanning windowing is used, i.e. the channelSpacing * 2", quantity="MHz")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="MHz")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="MHz")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="MHz")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrum-Dataset", quantity="MHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")
StringParameter	cal_type (description="null", quantity="GHz")
<i>Columns</i>	
<i>Double2d</i>	flux_1 (description="HRS Correlation factors", quantity="K")
<i>Double2d</i>	frequency_1 (description="Intermediate Frequency", quantity="MHz")
<i>Int2d</i>	flag_1 (description="null", quantity="none")
<i>Double2d</i>	flux_2 (description="HRS Correlation factors", quantity="K")
<i>Double2d</i>	frequency_2 (description="Intermediate Frequency", quantity="MHz")
<i>Int2d</i>	flag_2 (description="null", quantity="none")
<i>Long1d</i>	obsTime (description="Observation Time (corrected)", quantity="none")
<i>Long1d</i>	packetTime (description="Packetization Time", quantity="none")
<i>Int1d</i>	integrations (description="Number of Integrations", quantity="none")
<i>Double2d</i>	integrationTime (description="Integration duration in seconds", quantity="s")
<i>Int1d</i>	bbtype (description="Building Block Type", quantity="none")
<i>Double1d</i>	Chopper (description="Actual chopper positions", quantity="none")
<i>Double1d</i>	cmd_chopper (description="Commanded chopper positions", quantity="none")
<i>Double1d</i>	LoFrequency (description="Local Oscillator Frequency", quantity="GHz")
<i>Double1d</i>	frequency_monitor (description="LSU Frequency Monitor", quantity="MHz")
<i>Bool1d</i>	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
<i>Int1d</i>	rowflag (description="Dataframe Flag", quantity="none")

<i>Double2d</i>	hot_cold (description="Hot and cold temperatures of the Blackbody Calibrator", quantity="K")
<i>Double1d</i>	MJC_Ver (description="Calibrated mixer junction current, vertical band 1", quantity="mA")
<i>Double1d</i>	MJC_Hor (description="Calibrated mixer junction current, horizontal band 1", quantity="mA")
<i>Double1d</i>	longitude_cmd (description="longitude (RA in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	latitude_cmd (description="latitude (Decl in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	longitude (description="longitude (RA in equatorial coord)", quantity="deg")
<i>Double1d</i>	latitude (description="latitude (Decl in equatorial coord)", quantity="deg")
<i>Double1d</i>	posAngle (description="Position Angle", quantity="deg")
<i>Double1d</i>	longitudeError (description="longitude errors", quantity="arcsec")
<i>Double1d</i>	latitudeError (description="latitude errors", quantity="arcsec")
<i>Double1d</i>	posAngleError (description="Position Angle errors", quantity="arcsec")
<i>Int1d</i>	rasterLineNum (description="Raster line number", quantity="1")
<i>Double1d</i>	ACS_5P_V (description="ACS voltage for +5V", quantity="V")
<i>Int2d</i>	colorIndex (description="null", quantity="none")
<i>Int1d</i>	nodCycleNum (description="Switching/nodding cycle number", quantity="1")
<i>Int1d</i>	bitshift (description="Bit Shift", quantity="none")
<i>Int2d</i>	type (description="null", quantity="none")
<i>Int2d</i>	resolution (description="null", quantity="none")
<i>Bool2d</i>	blockselection (description="Block Selection", quantity="none")
<i>Double1d</i>	ACS_18P_V (description="ACS voltage for +18V", quantity="V")
<i>Double2d</i>	IF_T (description="IF Temperature values", quantity="degC")
<i>String1d</i>	Buffer_S (description="Buffer for ACS integration : BufferA/BufferB", quantity="none")
<i>Double1d</i>	ACS_8P_V (description="ACS voltage for +8V", quantity="V")
<i>Int1d</i>	buffer (description="Integration Buffer", quantity="none")
<i>Double1d</i>	IF_5M_V (description="IF voltage for -5V", quantity="V")
<i>Int1d</i>	sequenceNumber (description="Integration Sequence Number", quantity="none")
<i>Double2d</i>	Attenuators (description="IRM attenuator values : 0-15.5 dB", quantity="dB")
<i>Int1d</i>	scanLineNum (description="Scan line number", quantity="1")
<i>Double1d</i>	DCDC_1P1_C (description="DCDC current value for +1.1V", quantity="A")
<i>Double1d</i>	ACS_Dig_3P3_V (description="ACS voltage for +3.3V (digital)", quantity="V")
<i>Int1d</i>	bbnumber (description="Building Block Number", quantity="none")
<i>Double2d</i>	LO_F (description="LO Frequency values", quantity="MHz")

<i>Double1d</i>	DCDC_18P_C (description="DCDC current value for +18V", quantity="A")
<i>Double1d</i>	ACS_Ana_1_3P3_V (description="ACS voltage for +3.3V (analog1)", quantity="V")
<i>Int1d</i>	customMapPointNum (description="Custom map pointing number", quantity="1")
<i>Int2d</i>	sampler (description="null", quantity="none")
<i>Double1d</i>	DCDC_5M_C (description="DCDC current value for -5V", quantity="A")
<i>Int1d</i>	nrbytes (description="Number of Bytes", quantity="none")
<i>Int2d</i>	LO_S (description="Status of the LO : Locked (=1) / Unlocked (=0)", quantity="none")
<i>Int2d</i>	channels (description="null", quantity="none")
<i>Double2d</i>	ACS_T (description="ACS Temperature values", quantity="degC")
<i>Double1d</i>	IF_8P_V (description="IF voltage for +8V", quantity="V")
<i>Bool1d</i>	isHot (description="null", quantity="none")
<i>Double1d</i>	ACS_Ana_2_3P3_V (description="ACS voltage for +3.3V (analog2)", quantity="V")
<i>Double2d</i>	DCDC_T (description="DCDC Temperature values", quantity="degC")
<i>Int2d</i>	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")
<i>Double1d</i>	DCDC_5P_C (description="DCDC current value for +5V", quantity="A")
<i>Int2d</i>	duration (description="Integration Duration", quantity="none")
<i>Double1d</i>	DCDC_8P_C (description="DCDC current value for +8V", quantity="A")
<i>Double1d</i>	DCDC_3P3_C (description="DCDC current value for +3.3V", quantity="A")
<i>String1d</i>	Pol_S (description="Polar used : H/V", quantity="none")
<i>Double1d</i>	IF_5P_V (description="IF voltage for +5V", quantity="V")
<i>Int1d</i>	rasterColumnNum (description="Raster Column number", quantity="1")
<i>String1d</i>	Unit_ID_S (description="Unit used : QM/FM", quantity="none")
<i>Int1d</i>	df_transfer (description="DataFrame Transfer Counter", quantity="none")
<i>Int2d</i>	cuts (description="null", quantity="none")
<i>Double1d</i>	ACS_Ana_1P1_V (description="ACS voltage for +1.1V (analog)", quantity="V")
<i>String1d</i>	Switch_S (description="Status of the input IF Switch : H/V", quantity="none")
<i>Double1d</i>	IF_18P_V (description="IF voltage for +18V", quantity="V")
<i>Long1d</i>	hkFlag (description="{HF_AV2_G_SIF1_V=17, HF_AH1_MXBIAS_C=0, HF_AV2_G_SIF3_V=21, HF_AH1_DPACT_V=10, HF_AV2_G_SIF2_V=19, HF_AH2_G_SIF3_V=20, HF_AH2_G_SIF2_V=18, HF_AH2_G_SIF1_V=16,

	HF_AH2_G_FIF1_V=12, HF_AH2_G_FIF2_V=14, HF_AV1_MXMG_V=7, HF_AP_SCHS_CT=22, HF_AV1_MXBIAS_V=3, HF_AV1_DPACT_C=27, HL_R_M1_1A_C=28, HF_APR_CH_ROT=8, HF_APR_SCC- S_CT=24, HF_AV2_G_FIF1_V=13, HF_AV2_G_FIF2_V=15, HL_R_M1_7A_C=28, HF_AH1_MXMG_V=6, HF_AR_SCHS_C- T=23, HF_APR_S2K_CT=25, HL_R_M1_7B_C=28, HF_AH1_MXBIAS_V=2, HF_AV1_MXBIAS_C=1, HF_AV1_MXMG_C=5, HF_DPR_CH_ROT2=9, HF_AH1_D- PACT_C=26, HL_R_M2_3B_C=28, HF_AV1_DPACT_V=11}", quantity="none")
<i>Double1d</i>	ACS_5M_V (description="ACS voltage for -5V", quantity="V")
<i>Double2d</i>	corrVSigma (description="null", quantity="none")
<i>Int2d</i>	LO_F_raw (description="LO Frequency raw values", quanti- ty="MHz")
<i>Double2d</i>	mSigma (description="null", quantity="none")
<i>Double1d</i>	IF_6P_V (description="IF voltage for +6V", quantity="V")
<i>Int1d</i>	hk_transfer (description="hk_transfer", quantity="none")
<i>Double1d</i>	tsys_median (description="Median of the Tsys array - subbands con- catenated.", quantity="none")

2.93. HIFICAL Product - WBS Spectrum Dataset

<i>product (type="herschel.ia.dataset.Product(HifiSpectrumDataset)", description="WBS Spectrum Dataset")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of Channels")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")

LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
LongParameter	loadInterval (description="Load period in seconds", quantity="s")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	pattAngle (description="Spectral map rotation angle", quantity="degrees")
DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")
DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")

DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
LongParameter	n_cycles (description="Number of cycle in the map", quantity="degrees")
LongParameter	n_linesperscan (description="Number of lines per scan", quantity="degrees")
LongParameter	superSampling (description="Supersampling factor in the map", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 2 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 2 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 2 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 2 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
StringParameter	badLoBand_4 (description="bad Lo in band", quantity="degrees")
LongParameter	Pipeline applied (description="Define which pipeline modules have been applied to the data.\u000A bit 0 = not used \u000A bit 1 = Scan count correction \u000A bit 3 = Dark correction \u000A bit 4 = Non Linearity correction \u000A bit 5 = Zero correction \u000A bit 6 = Frequency calibration applied \u000A", quantity="degrees")
BooleanParameter	isMasked (description="Bad Pixels have been flagged", quantity="degrees")
DoubleParameter	resolution (description="Mean resolution from all combs spectra", quantity="MHz")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="MHz")

LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="MHz")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="MHz")
LongParameter	subbandstart_3 (description="Starting channel for subband 3", quantity="MHz")
LongParameter	subbandstart_4 (description="Starting channel for subband 4", quantity="MHz")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="MHz")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="MHz")
LongParameter	subbandlength_3 (description="Length of subband 3", quantity="MHz")
LongParameter	subbandlength_4 (description="Length of subband 4", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrumDataset", quantity="MHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")
StringParameter	cal_type (description="null", quantity="GHz")
StringParameter	fileName (description="filename for exporting purposes", quantity="GHz")
<i>Columns</i>	
<i>table dataset</i>	(name="0001", description="WBS Spectrum Dataset")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of Channels")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")

StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
LongParameter	loadInterval (description="Load period in seconds", quantity="s")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	pattAngle (description="Spectral map rotation angle", quantity="degrees")
DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")
DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")

DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
LongParameter	n_cycles (description="Number of cycle in the map", quantity="degrees")
LongParameter	n_linesperscan (description="Number of lines per scan", quantity="degrees")
LongParameter	superSampling (description="Supersampling factor in the map", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 2 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 2 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 2 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 2 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
StringParameter	badLoBand_4 (description="bad Lo in band", quantity="degrees")
LongParameter	Pipeline applied (description="Define which pipeline modules have been applied to the data.\u000A bit 0 = not used \u000A bit 1 = Scan count correction \u000A bit 3 = Dark correction \u000A bit 4 = Non Linearity correction \u000A bit 5 = Zero correction \u000A bit 6 = Frequency calibration applied \u000A", quantity="degrees")
BooleanParameter	isMasked (description="Bad Pixels have been flagged", quantity="degrees")

DoubleParameter	resolution (description="Mean resolution from all combs spectra", quantity="MHz")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="MHz")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="MHz")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="MHz")
LongParameter	subbandstart_3 (description="Starting channel for subband 3", quantity="MHz")
LongParameter	subbandstart_4 (description="Starting channel for subband 4", quantity="MHz")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="MHz")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="MHz")
LongParameter	subbandlength_3 (description="Length of subband 3", quantity="MHz")
LongParameter	subbandlength_4 (description="Length of subband 4", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrum-Dataset", quantity="MHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")
StringParameter	cal_type (description="null", quantity="GHz")
<i>Columns</i>	
<i>Double2d</i>	flux_1 (description="WBS flux", quantity="K")
<i>Double2d</i>	frequency_1 (description="Intermediate Frequency", quantity="MHz")
<i>Int2d</i>	flag_1 (description="null", quantity="none")
<i>Double2d</i>	flux_2 (description="WBS flux", quantity="K")
<i>Double2d</i>	frequency_2 (description="Intermediate Frequency", quantity="MHz")
<i>Int2d</i>	flag_2 (description="null", quantity="none")
<i>Double2d</i>	flux_3 (description="WBS flux", quantity="K")
<i>Double2d</i>	frequency_3 (description="Intermediate Frequency", quantity="MHz")
<i>Int2d</i>	flag_3 (description="null", quantity="none")
<i>Double2d</i>	flux_4 (description="WBS flux", quantity="K")
<i>Double2d</i>	frequency_4 (description="Intermediate Frequency", quantity="MHz")
<i>Int2d</i>	flag_4 (description="null", quantity="none")
<i>Long1d</i>	obsTime (description="Observation Time", quantity="none")
<i>Long1d</i>	packetTime (description="Packetization Time", quantity="none")

<i>Int1d</i>	scancount (description="Integrated Scan Count", quantity="none")
<i>Int1d</i>	integrations (description="Number of Integrations", quantity="none")
<i>Double1d</i>	integrationTime (description="Integration duration in seconds", quantity="s")
<i>Int1d</i>	bbtype (description="Building Block Type", quantity="none")
<i>Double1d</i>	Chopper (description="Actual chopper positions", quantity="none")
<i>Double1d</i>	cmd_chopper (description="Commanded chopper positions", quantity="none")
<i>Double1d</i>	LoFrequency (description="Local Oscillator Frequency", quantity="GHz")
<i>Double1d</i>	frequency_monitor (description="LSU Frequency Monitor", quantity="MHz")
<i>Bool1d</i>	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
<i>Int1d</i>	rowflag (description="Dataframe Flag", quantity="none")
<i>Double2d</i>	hot_cold (description="Hot and cold temperatures of the Blackbody Calibrator", quantity="K")
<i>Double1d</i>	MJC_Ver (description="Calibrated mixer junction current, vertical band 1", quantity="mA")
<i>Double1d</i>	MJC_Hor (description="Calibrated mixer junction current, horizontal band 1", quantity="mA")
<i>Double1d</i>	longitude_cmd (description="Longitude (RA in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	latitude_cmd (description="latitude (Decl in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	longitude (description="Longitude (RA in equatorial coord)", quantity="deg")
<i>Double1d</i>	latitude (description="latitude (Decl in equatorial coord)", quantity="deg")
<i>Double1d</i>	posAngle (description="Position Angle", quantity="deg")
<i>Double1d</i>	longitudeError (description="Longitude errors", quantity="arcsec")
<i>Double1d</i>	latitudeError (description="latitude errors", quantity="arcsec")
<i>Double1d</i>	posAngleError (description="Position Angle errors", quantity="arcsec")
<i>Int1d</i>	rasterLineNum (description="Raster line number", quantity="1")
<i>Int1d</i>	nodCycleNum (description="Switching/nodding cycle number", quantity="1")
<i>Int2d</i>	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")
<i>Int1d</i>	bitshift (description="Bit Shift", quantity="none")
<i>Double3d</i>	dark (description="Dark Current Data", quantity="none")
<i>Int1d</i>	buffer (description="Integration Buffer", quantity="none")
<i>Int1d</i>	rasterColumnNum (description="Raster Column number", quantity="1")
<i>Int1d</i>	df_transfer (description="DataFrame Transfer Counter", quantity="none")

<i>Int1d</i>	sequenceNumber (description="Integration Sequence Number", quantity="none")
<i>Int1d</i>	scanLineNum (description="Scan line number", quantity="1")
<i>Int1d</i>	bbnumber (description="Building Block Number", quantity="none")
<i>Int1d</i>	IN_ATT (description="null", quantity="none")
<i>Int1d</i>	customMapPointNum (description="Custom map pointing number", quantity="1")
<i>Long1d</i>	hkFlag (description="{HF_AV2_G_SIF1_V=17, HF_AH1_MXBIAS_C=0, HF_AH1_MXMG_C=4, HF_AV2_G_SIF3_V=21, HF_AH1_DPACT_V=10, HF_AV2_G_SIF2_V=19, HF_AH2_G_SIF3_V=20, HF_AH2_G_SIF2_V=18, HF_AH2_G_SIF1_V=16, HF_AH2_G_FIF1_V=12, HF_AH2_G_FIF2_V=14, HF_AV1_MXMG_V=7, HF_AP_SCHS_CT=22, HF_AV1_MXBIAS_V=3, HF_AV1_DPACT_C=27, HL_R_M1_1A_C=28, HF_APR_CH_ROT=8, HF_APR_SCC_S_CT=24, HF_AV2_G_FIF1_V=13, HF_AV2_G_FIF2_V=15, HL_R_M1_7A_C=28, HF_AH1_MXMG_V=6, HF_AR_SCHS_CT=23, HF_APR_S2K_CT=25, HL_R_M1_7B_C=28, HF_AH1_MXBIAS_V=2, HF_AV1_MXBIAS_C=1, HF_AV1_MXMG_C=5, HF_DPR_CH_ROT2=9, HF_AH1_DPACT_C=26, HL_R_M2_3B_C=28, HF_AV1_DPACT_V=11}", quantity="none")
<i>Int1d</i>	nrbytes (description="Number of Bytes", quantity="none")
<i>Int2d</i>	badLo (description="bit 0=Bad LO; bit 1=Weak_spur; bit 2=Strong_spur; bit 3=Strong_instability; bit 4=IF_saturation;", quantity="none")
<i>Int2d</i>	Band_ATT (description="null", quantity="none")
<i>Bool1d</i>	isHot (description="null", quantity="none")
<i>Int1d</i>	hk_transfer (description="hk_transfer", quantity="none")
<i>Double1d</i>	tsys_median (description="Median of the Tsys array - subbands concatenated.", quantity="none")

2.94. HIFICAL Product - Time ordered HIFI product

<i>product</i> (type="herschel.hifi.pipeline.product.HifiTimelineProduct", description="Time ordered HIFI product")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")

StringParameter	formatVersion (description="Version of product format")
StringParameter	aot (description="AOT Identifier")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	calVersion (description="HIFI calibration version")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="deg")
LongParameter	count_ds (description="Number of datasets in this product", quantity="deg")
LongParameter	last_ds (description="last dataset in this product", quantity="deg")
LongParameter	obsid (description="Observation Identifier", quantity="deg")
LongParameter	apid (description="Application Programme Identifier", quantity="deg")
StringParameter	fileName (description="filename for exporting purposes", quantity="deg")
StringParameter	author (description="author of this product", quantity="deg")
StringParameter	origin (description="site that created the product", quantity="deg")
StringParameter	telescope (description="name of telescope", quantity="deg")
LongParameter	odNumber (description="Operational day number", quantity="deg")
StringParameter	obsMode (description="Observation Mode", quantity="deg")
StringParameter	AOT (description="Observation template (same as obsMode)", quantity="deg")
StringParameter	object (description="Target of Observation", quantity="deg")
LongParameter	naifId (description="Solar system object NAIF identifier", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
LongParameter	loadInterval (description="Load period in seconds", quantity="s")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	pattAngle (description="Spectral map rotation angle", quantity="degrees")
DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")

DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
LongParameter	n_cycles (description="Number of cycle in the map", quantity="degrees")
LongParameter	n_linesperscan (description="Number of lines per scan", quantity="degrees")
LongParameter	dataTime (description="Backend readout period", quantity="s")
LongParameter	superSampling (description="Supersampling factor in the map", quantity="s")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="s")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="s")
StringParameter	attitudeQuaternion (description="Pointing product quaternion applied", quantity="s")
DoubleParameter	unalignedHKdata (description="Max percentage of Dataframes which have unaligned HK", quantity="s")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="s")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="s")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="s")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="s")
StringParameter	Band (description="Active band", quantity="s")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="s")
LongParameter	datasetsPerBox (description="Maximum number of datasets per box", quantity="s")
StringParameter	sideband (description="status: upper or lower side band", quantity="s")
DoubleParameter	hpbwAssumed (description="HPBW assumed by doGridding, typically unequal to physical HPBW (metadatum hpbw)", quantity="arcsec")
BooleanParameter	erpFlagged (description="An ERP flag table has been provided for this obsid", quantity="arcsec")
<i>Columns</i>	
<i>table dataset</i>	(name="0", description="Systematic instrument uncertainty table")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
LongParameter	obsid (description="Observation Identifier")
LongParameter	apid (description="Application Programme Identifier")
StringParameter	band (description="Active band")
StringParameter	backend (description="Spectrograph: WBS or HRS")

StringParameter	sideband (description="status: upper or lower side band")
DoubleParameter	LoFrequency (description="LO Frequency", quantity="GHz")
Columns	
StringId	uncertaintyType (description="null", quantity="none")
DoubleId	uncertaintyIfMid_1 (description="Channel range from 540 to 1371", quantity="none")
DoubleId	uncertaintyIfMid_2 (description="Channel range from 1497 to 2328", quantity="none")
DoubleId	uncertainty0 (description="null", quantity="none")
DoubleId	uncertainty1 (description="null", quantity="none")
DoubleId	uncertainty2 (description="null", quantity="none")
DoubleId	uncertainty3 (description="null", quantity="none")

2.95. HIFICAL Product - Time ordered HIFI product

<i>product (type="herschel.hifi.pipeline.product.HifiTimelineProduct", description="Time ordered HIFI product")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	aot (description="AOT Identifier")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	calVersion (description="HIFI calibration version")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="deg")

LongParameter	count_ds (description="null", quantity="deg")
LongParameter	last_ds (description="last dataset in this product", quantity="deg")
LongParameter	obsid (description="Observation Identifier", quantity="deg")
LongParameter	apid (description="Application Programme Identifier", quantity="deg")
StringParameter	fileName (description="filename for exporting purposes", quantity="deg")
StringParameter	author (description="author of this product", quantity="deg")
StringParameter	origin (description="site that created the product", quantity="deg")
StringParameter	telescope (description="name of telescope", quantity="deg")
LongParameter	odNumber (description="Operational day number", quantity="deg")
StringParameter	obsMode (description="Observation Mode", quantity="deg")
StringParameter	AOT (description="Observation template (same as obsMode)", quantity="deg")
StringParameter	object (description="Target of Observation", quantity="deg")
LongParameter	naifId (description="Solar system object NAIF identifier", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
LongParameter	loadInterval (description="Load period in seconds", quantity="s")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	pattAngle (description="Spectral map rotation angle", quantity="degrees")
DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")
DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
LongParameter	n_cycles (description="Number of cycle in the map", quantity="degrees")
LongParameter	n_linesperscan (description="Number of lines per scan", quantity="degrees")
LongParameter	dataTime (description="Backend readout period", quantity="s")
LongParameter	superSampling (description="Supersampling factor in the map", quantity="s")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="s")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="s")
StringParameter	attitudeQuaternion (description="Pointing product quaternion applied", quantity="s")
DoubleParameter	unalignedHKdata (description="Max percentage of Dataframes which have unaligned HK", quantity="s")

BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="s")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="s")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="s")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="s")
StringParameter	Band (description="Active band", quantity="s")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="s")
LongParameter	datasetsPerBox (description="Maximum number of datasets per box", quantity="s")
StringParameter	sideband (description="status: upper or lower side band", quantity="s")
DoubleParameter	hpbwAssumed (description="HPBW assumed by doGridding, typically unequal to physical HPBW (metadatum hpbw)", quantity="arcsec")
BooleanParameter	erpFlagged (description="An ERP flag table has been provided for this obsid", quantity="arcsec")
<i>Columns</i>	
<i>table dataset</i>	(name="0", description="Systematic instrument uncertainty table")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
LongParameter	obsid (description="Observation Identifier")
LongParameter	apid (description="Application Programme Identifier")
StringParameter	band (description="Active band")
StringParameter	backend (description="Spectrograph: WBS or HRS")
StringParameter	sideband (description="status: upper or lower side band")
DoubleParameter	LoFrequency (description="LO Frequency", quantity="GHz")
<i>Columns</i>	
<i>StringId</i>	uncertaintyType (description="null", quantity="none")
<i>DoubleId</i>	uncertaintyIfMid_1 (description="Channel range from 540 to 1371", quantity="none")
<i>DoubleId</i>	uncertaintyIfMid_2 (description="Channel range from 1497 to 2328", quantity="none")
<i>DoubleId</i>	uncertainty0 (description="null", quantity="none")
<i>DoubleId</i>	uncertainty1 (description="null", quantity="none")
<i>DoubleId</i>	uncertainty2 (description="null", quantity="none")
<i>DoubleId</i>	uncertainty3 (description="null", quantity="none")

2.96. HIFICAL Product - Time ordered HIFI product

<i>product (type="herschel.hifi.pipeline.product.HifiTimelineProduct", description="Time ordered HIFI product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	aot (description="AOT Identifier")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	calVersion (description="HIFI calibration version")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="deg")
LongParameter	count_ds (description="Number of datasets in this product", quantity="deg")
LongParameter	last_ds (description="last dataset in this product", quantity="deg")
LongParameter	obsid (description="Observation Identifier", quantity="deg")
LongParameter	apid (description="Application Programme Identifier", quantity="deg")
StringParameter	fileName (description="filename for exporting purposes", quantity="deg")
StringParameter	author (description="author of this product", quantity="deg")
StringParameter	origin (description="site that created the product", quantity="deg")
StringParameter	telescope (description="name of telescope", quantity="deg")
LongParameter	odNumber (description="Operational day number", quantity="deg")
StringParameter	obsMode (description="Observation Mode", quantity="deg")
StringParameter	AOT (description="Observation template (same as obsMode)", quantity="deg")
StringParameter	object (description="Target of Observation", quantity="deg")

LongParameter	naifId (description="Solar system object NAIF identifier", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
LongParameter	loadInterval (description="Load period in seconds", quantity="s")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	pattAngle (description="Spectral map rotation angle", quantity="degrees")
DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")
DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
LongParameter	n_cycles (description="Number of cycle in the map", quantity="degrees")
LongParameter	n_linesperscan (description="Number of lines per scan", quantity="degrees")
LongParameter	dataTime (description="Backend readout period", quantity="s")
LongParameter	superSampling (description="Supersampling factor in the map", quantity="s")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="s")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="s")
StringParameter	attitudeQuaternion (description="Pointing product quaternion applied", quantity="s")
DoubleParameter	unalignedHKdata (description="Max percentage of Dataframes which have unaligned HK", quantity="s")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="s")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="s")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="s")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="s")
StringParameter	badLoBand_4 (description="Band 4 for some spectra has Bad LO", quantity="s")
StringParameter	Band (description="Active band", quantity="s")
LongParameter	pixelSaturated (description="Maximum number of saturated pixel detected in a single spectrum", quantity="s")
LongParameter	badPixels (description="Number of channels marked as BAD", quantity="s")

BooleanParameter	checkZero (description="Flag for all Zero of the observation", quantity="s")
BooleanParameter	checkComb (description="All COMBs have been fitted", quantity="s")
DoubleParameter	resolution (description="Mean resolution from all combs spectra", quantity="MHz")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="MHz")
LongParameter	datasetsPerBox (description="Maximum number of datasets per box", quantity="MHz")
StringParameter	sideband (description="status: upper or lower side band", quantity="MHz")
DoubleParameter	hpbwAssumed (description="HPBW assumed by doGridding, typically unequal to physical HPBW (metadatum hpbw)", quantity="arcsec")
BooleanParameter	platforming (description="Platforming present in overlapping subbands", quantity="arcsec")
BooleanParameter	erpFlagged (description="An ERP flag table has been provided for this obsid", quantity="arcsec")
BooleanParameter	spur (description="Spur lines detected in the cold spectra.", quantity="arcsec")
<i>Columns</i>	
<i>table dataset</i>	(name="0", description="Systematic instrument uncertainty table")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
LongParameter	obsid (description="Observation Identifier")
LongParameter	apid (description="Application Programme Identifier")
StringParameter	band (description="Active band")
StringParameter	backend (description="Spectrograph: WBS or HRS")
StringParameter	sideband (description="status: upper or lower side band")
DoubleParameter	LoFrequency (description="LO Frequency", quantity="GHz")
<i>Columns</i>	
<i>StringId</i>	uncertaintyType (description="null", quantity="none")
<i>DoubleId</i>	uncertaintyIfLow (description="Channel range from 0 to 199", quantity="none")
<i>DoubleId</i>	uncertaintyIfMid (description="Channel range from 4297 to 4767", quantity="none")
<i>DoubleId</i>	uncertaintyIfHigh (description="Channel range from 8864 to 9063", quantity="none")
<i>DoubleId</i>	uncertainty0 (description="null", quantity="none")
<i>DoubleId</i>	uncertainty1 (description="null", quantity="none")
<i>DoubleId</i>	uncertainty2 (description="null", quantity="none")
<i>DoubleId</i>	uncertainty3 (description="null", quantity="none")

2.97. HIFICAL Product - Time ordered HIFI product

<i>product (type="herschel.hifi.pipeline.product.HifiTimelineProduct", description="Time ordered HIFI product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	aot (description="AOT Identifier")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	calVersion (description="HIFI calibration version")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="deg")
LongParameter	count_ds (description="null", quantity="deg")
LongParameter	last_ds (description="last dataset in this product", quantity="deg")
LongParameter	obsid (description="Observation Identifier", quantity="deg")
LongParameter	apid (description="Application Programme Identifier", quantity="deg")
StringParameter	fileName (description="filename for exporting purposes", quantity="deg")
StringParameter	author (description="author of this product", quantity="deg")
StringParameter	origin (description="site that created the product", quantity="deg")
StringParameter	telescope (description="name of telescope", quantity="deg")
LongParameter	odNumber (description="Operational day number", quantity="deg")
StringParameter	obsMode (description="Observation Mode", quantity="deg")
StringParameter	AOT (description="Observation template (same as obsMode)", quantity="deg")
StringParameter	object (description="Target of Observation", quantity="deg")

LongParameter	naifId (description="Solar system object NAIF identifier", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
LongParameter	loadInterval (description="Load period in seconds", quantity="s")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	pattAngle (description="Spectral map rotation angle", quantity="degrees")
DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")
DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
LongParameter	n_cycles (description="Number of cycle in the map", quantity="degrees")
LongParameter	n_linesperscan (description="Number of lines per scan", quantity="degrees")
LongParameter	dataTime (description="Backend readout period", quantity="s")
LongParameter	superSampling (description="Supersampling factor in the map", quantity="s")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="s")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="s")
StringParameter	attitudeQuaternion (description="Pointing product quaternion applied", quantity="s")
DoubleParameter	unalignedHKdata (description="Max percentage of Dataframes which have unaligned HK", quantity="s")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="s")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="s")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="s")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="s")
StringParameter	badLoBand_4 (description="Band 4 for some spectra has Bad LO", quantity="s")
StringParameter	Band (description="Active band", quantity="s")
LongParameter	pixelSaturated (description="Maximum number of saturated pixel detected in a single spectrum", quantity="s")
LongParameter	badPixels (description="Number of channels marked as BAD", quantity="s")

BooleanParameter	checkZero (description="Flag for all Zero of the observation", quantity="s")
BooleanParameter	checkComb (description="All COMBs have been fitted", quantity="s")
DoubleParameter	resolution (description="Mean resolution from all combs spectra", quantity="MHz")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="MHz")
LongParameter	datasetsPerBox (description="Maximum number of datasets per box", quantity="MHz")
StringParameter	sideband (description="status: upper or lower side band", quantity="MHz")
DoubleParameter	hpbwAssumed (description="HPBW assumed by doGridding, typically unequal to physical HPBW (metadatum hpbw)", quantity="arcsec")
BooleanParameter	platforming (description="Platforming present in overlapping subbands", quantity="arcsec")
BooleanParameter	erpFlagged (description="An ERP flag table has been provided for this obsid", quantity="arcsec")
BooleanParameter	spur (description="Spur lines detected in the cold spectra.", quantity="arcsec")
<i>Columns</i>	
<i>table dataset</i>	(name="0", description="Systematic instrument uncertainty table")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
LongParameter	obsid (description="Observation Identifier")
LongParameter	apid (description="Application Programme Identifier")
StringParameter	band (description="Active band")
StringParameter	backend (description="Spectrograph: WBS or HRS")
StringParameter	sideband (description="status: upper or lower side band")
DoubleParameter	LoFrequency (description="LO Frequency", quantity="GHz")
<i>Columns</i>	
<i>StringId</i>	uncertaintyType (description="null", quantity="none")
<i>DoubleId</i>	uncertaintyIfLow (description="Channel range from 0 to 199", quantity="none")
<i>DoubleId</i>	uncertaintyIfMid (description="Channel range from 4297 to 4767", quantity="none")
<i>DoubleId</i>	uncertaintyIfHigh (description="Channel range from 8864 to 9063", quantity="none")
<i>DoubleId</i>	uncertainty0 (description="null", quantity="none")
<i>DoubleId</i>	uncertainty1 (description="null", quantity="none")
<i>DoubleId</i>	uncertainty2 (description="null", quantity="none")
<i>DoubleId</i>	uncertainty3 (description="null", quantity="none")

2.98. HIFICAL Product - Time ordered HIFI product

<i>product (type="herschel.hifi.pipeline.product.HifiTimelineProduct", description="Time ordered HIFI product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	aot (description="AOT Identifier")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	calVersion (description="HIFI calibration version")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="deg")
LongParameter	count_ds (description="Number of datasets in this product", quantity="deg")
LongParameter	last_ds (description="last dataset in this product", quantity="deg")
LongParameter	obsid (description="Observation Identifier", quantity="deg")
LongParameter	apid (description="Application Programme Identifier", quantity="deg")
StringParameter	fileName (description="filename for exporting purposes", quantity="deg")
StringParameter	author (description="author of this product", quantity="deg")
StringParameter	origin (description="site that created the product", quantity="deg")
StringParameter	telescope (description="name of telescope", quantity="deg")
LongParameter	odNumber (description="Operational day number", quantity="deg")
StringParameter	obsMode (description="Observation Mode", quantity="deg")
StringParameter	AOT (description="Observation template (same as obsMode)", quantity="deg")
StringParameter	object (description="Target of Observation", quantity="deg")

LongParameter	naifId (description="Solar system object NAIF identifier", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
LongParameter	loadInterval (description="Load period in seconds", quantity="s")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	pattAngle (description="Spectral map rotation angle", quantity="degrees")
DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")
DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
LongParameter	n_cycles (description="Number of cycle in the map", quantity="degrees")
LongParameter	n_linesperscan (description="Number of lines per scan", quantity="degrees")
LongParameter	dataTime (description="Backend readout period", quantity="s")
LongParameter	superSampling (description="Supersampling factor in the map", quantity="s")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="s")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="s")
StringParameter	attitudeQuaternion (description="Pointing product quaternion applied", quantity="s")
DoubleParameter	unalignedHKdata (description="Max percentage of Dataframes which have unaligned HK", quantity="s")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="s")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="s")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="s")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="s")
StringParameter	badLoBand_4 (description="Band 4 for some spectra has Bad LO", quantity="s")
StringParameter	Band (description="Active band", quantity="s")
LongParameter	pixelSaturated (description="Maximum number of saturated pixel detected in a single spectrum", quantity="s")
LongParameter	badPixels (description="Number of channels marked as BAD", quantity="s")

BooleanParameter	checkZero (description="Flag for all Zero of the observation", quantity="s")
BooleanParameter	checkComb (description="All COMBs have been fitted", quantity="s")
DoubleParameter	resolution (description="Mean resolution from all combs spectra", quantity="MHz")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="MHz")
LongParameter	datasetsPerBox (description="Maximum number of datasets per box", quantity="MHz")
StringParameter	sideband (description="status: upper or lower side band", quantity="MHz")
DoubleParameter	hpbwAssumed (description="HPBW assumed by doGridding, typically unequal to physical HPBW (metadatum hpbw)", quantity="arcsec")
BooleanParameter	erpFlagged (description="An ERP flag table has been provided for this obsid", quantity="arcsec")
BooleanParameter	spur (description="Spur lines detected in the cold spectra.", quantity="arcsec")
<i>Columns</i>	
<i>table dataset</i>	(name="0", description="Systematic instrument uncertainty table")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
LongParameter	obsid (description="Observation Identifier")
LongParameter	apid (description="Application Programme Identifier")
StringParameter	band (description="Active band")
StringParameter	backend (description="Spectrograph: WBS or HRS")
StringParameter	sideband (description="status: upper or lower side band")
DoubleParameter	LoFrequency (description="LO Frequency", quantity="GHz")
<i>Columns</i>	
<i>StringId</i>	uncertaintyType (description="null", quantity="none")
<i>DoubleId</i>	uncertaintyIfLow (description="Channel range from 0 to 199", quantity="none")
<i>DoubleId</i>	uncertaintyIfMid (description="Channel range from 4295 to 4763", quantity="none")
<i>DoubleId</i>	uncertaintyIfHigh (description="Channel range from 8858 to 9057", quantity="none")
<i>DoubleId</i>	uncertainty0 (description="null", quantity="none")
<i>DoubleId</i>	uncertainty1 (description="null", quantity="none")
<i>DoubleId</i>	uncertainty2 (description="null", quantity="none")
<i>DoubleId</i>	uncertainty3 (description="null", quantity="none")

2.99. HIFICAL Product - Time ordered HIFI product

<i>product (type="herschel.hifi.pipeline.product.HifiTimelineProduct", description="Time ordered HIFI product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	aot (description="AOT Identifier")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	calVersion (description="HIFI calibration version")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="deg")
LongParameter	count_ds (description="null", quantity="deg")
LongParameter	last_ds (description="last dataset in this product", quantity="deg")
LongParameter	obsid (description="Observation Identifier", quantity="deg")
LongParameter	apid (description="Application Programme Identifier", quantity="deg")
StringParameter	fileName (description="filename for exporting purposes", quantity="deg")
StringParameter	author (description="author of this product", quantity="deg")
StringParameter	origin (description="site that created the product", quantity="deg")
StringParameter	telescope (description="name of telescope", quantity="deg")
LongParameter	odNumber (description="Operational day number", quantity="deg")
StringParameter	obsMode (description="Observation Mode", quantity="deg")
StringParameter	AOT (description="Observation template (same as obsMode)", quantity="deg")
StringParameter	object (description="Target of Observation", quantity="deg")

LongParameter	naifId (description="Solar system object NAIF identifier", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
LongParameter	loadInterval (description="Load period in seconds", quantity="s")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	pattAngle (description="Spectral map rotation angle", quantity="degrees")
DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")
DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
LongParameter	n_cycles (description="Number of cycle in the map", quantity="degrees")
LongParameter	n_linesperscan (description="Number of lines per scan", quantity="degrees")
LongParameter	dataTime (description="Backend readout period", quantity="s")
LongParameter	superSampling (description="Supersampling factor in the map", quantity="s")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="s")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="s")
StringParameter	attitudeQuaternion (description="Pointing product quaternion applied", quantity="s")
DoubleParameter	unalignedHKdata (description="Max percentage of Dataframes which have unaligned HK", quantity="s")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="s")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="s")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="s")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="s")
StringParameter	badLoBand_4 (description="Band 4 for some spectra has Bad LO", quantity="s")
StringParameter	Band (description="Active band", quantity="s")
LongParameter	pixelSaturated (description="Maximum number of saturated pixel detected in a single spectrum", quantity="s")
LongParameter	badPixels (description="Number of channels marked as BAD", quantity="s")

BooleanParameter	checkZero (description="Flag for all Zero of the observation", quantity="s")
BooleanParameter	checkComb (description="All COMBs have been fitted", quantity="s")
DoubleParameter	resolution (description="Mean resolution from all combs spectra", quantity="MHz")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="MHz")
LongParameter	datasetsPerBox (description="Maximum number of datasets per box", quantity="MHz")
StringParameter	sideband (description="status: upper or lower side band", quantity="MHz")
DoubleParameter	hpbwAssumed (description="HPBW assumed by doGridding, typically unequal to physical HPBW (metadatum hpbw)", quantity="arcsec")
BooleanParameter	erpFlagged (description="An ERP flag table has been provided for this obsid", quantity="arcsec")
BooleanParameter	spur (description="Spur lines detected in the cold spectra.", quantity="arcsec")
<i>Columns</i>	
<i>table dataset</i>	(name="0", description="Systematic instrument uncertainty table")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
LongParameter	obsid (description="Observation Identifier")
LongParameter	apid (description="Application Programme Identifier")
StringParameter	band (description="Active band")
StringParameter	backend (description="Spectrograph: WBS or HRS")
StringParameter	sideband (description="status: upper or lower side band")
DoubleParameter	LoFrequency (description="LO Frequency", quantity="GHz")
<i>Columns</i>	
<i>StringId</i>	uncertaintyType (description="null", quantity="none")
<i>DoubleId</i>	uncertaintyIfLow (description="Channel range from 0 to 199", quantity="none")
<i>DoubleId</i>	uncertaintyIfMid (description="Channel range from 4295 to 4762", quantity="none")
<i>DoubleId</i>	uncertaintyIfHigh (description="Channel range from 8858 to 9057", quantity="none")
<i>DoubleId</i>	uncertainty0 (description="null", quantity="none")
<i>DoubleId</i>	uncertainty1 (description="null", quantity="none")
<i>DoubleId</i>	uncertainty2 (description="null", quantity="none")
<i>DoubleId</i>	uncertainty3 (description="null", quantity="none")

2.100. HIFICAL Product - The frequency calibration for the WBS. This product contains one TableDataset with 5 columns,\u000A one for time and for each of the four CCD

<i>product (type="CalWbsFreqCoeff", description="The frequency calibration for the WBS. This product contains one TableDataset with 5 columns,\u000A one for time and for each of the four CCD")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="000A a set of polynome coefficients that defin&")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	calversion (description="Version of this product")
StringParameter	name (description="Name of this product")
StringParameter	interpolation_type (description="Type of interpolation in time used")
<i>Columns</i>	
<i>table dataset</i>	<i>(name="Coefficients CalWbsFreq Product", description="Coefficients CalWbsFreq Product")</i>
<i>Metadata</i>	
BooleanParameter	normalized (description="Table contains coefficient relative to pixel values normalized.")
<i>Columns</i>	
<i>Double2d</i>	ccd_1 (description="Default ccd_1", quantity="none")
<i>Double2d</i>	ccd_2 (description="Default ccd_2", quantity="none")
<i>Double2d</i>	ccd_3 (description="Default ccd_3", quantity="none")
<i>Double2d</i>	ccd_4 (description="Default ccd_4", quantity="none")
<i>Long1d</i>	obsTime (description="Default obsTime", quantity="none")

2.101. HIFICAL Product - WBS Spectrum Dataset

<i>product (type="herschel.ia.dataset.Product(HifiSpectrumDataset)", description="WBS Spectrum Dataset")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")

StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of Channels")
LongParameter	subbandstart_1 (description="Starting channel for subband 1")
LongParameter	subbandstart_2 (description="Starting channel for subband 2")
LongParameter	subbandstart_3 (description="Starting channel for subband 3")
LongParameter	subbandstart_4 (description="Starting channel for subband 4")
LongParameter	subbandlength_1 (description="Length of subband 1")
LongParameter	subbandlength_2 (description="Length of subband 2")
LongParameter	subbandlength_3 (description="Length of subband 3")
LongParameter	subbandlength_4 (description="Length of subband 4")
StringParameter	rowflag_9 (description="No valid Chopper information. value = 512")
StringParameter	rowflag_10 (description="No valid Commanded Chopper information. value = 1024")
StringParameter	rowflag_11 (description="No valid Frequency Monitor information. value = 2048")
StringParameter	rowflag_12 (description="No valid LO code offset information. value = 4096")
StringParameter	rowflag_13 (description="No valid LO code main information. value = 8192")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")

StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
LongParameter	loadInterval (description="Load period in seconds", quantity="s")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	pattAngle (description="Spectral map rotation angle", quantity="degrees")
DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")
DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
LongParameter	n_cycles (description="Number of cycle in the map", quantity="degrees")
LongParameter	n_linesperscan (description="Number of lines per scan", quantity="degrees")
LongParameter	superSampling (description="Supersampling factor in the map", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")

LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
StringParameter	badLoBand_4 (description="bad Lo in band", quantity="degrees")
LongParameter	Pipeline applied (description="Define which pipeline modules have been applied to the data.\u000A bit 0 = not used \u000A bit 1 = Scan count correction \u000A bit 3 = Dark correction \u000A bit 4 = Non Linearity correction \u000A bit 5 = Zero correction \u000A bit 6 = Frequency calibration applied \u000A", quantity="degrees")
BooleanParameter	isMasked (description="Bad Pixels have been flagged", quantity="degrees")
<i>Columns</i>	
<i>table dataset</i>	(name="dataset", description="WBS Spectrum Dataset")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of Channels")
LongParameter	subbandstart_1 (description="Starting channel for subband 1")
LongParameter	subbandstart_2 (description="Starting channel for subband 2")
LongParameter	subbandstart_3 (description="Starting channel for subband 3")
LongParameter	subbandstart_4 (description="Starting channel for subband 4")
LongParameter	subbandlength_1 (description="Length of subband 1")
LongParameter	subbandlength_2 (description="Length of subband 2")
LongParameter	subbandlength_3 (description="Length of subband 3")
LongParameter	subbandlength_4 (description="Length of subband 4")
StringParameter	rowflag_9 (description="No valid Chopper information. value = 512")
StringParameter	rowflag_10 (description="No valid Commanded Chopper information. value = 1024")
StringParameter	rowflag_11 (description="No valid Frequency Monitor information. value = 2048")

StringParameter	rowflag_12 (description="No valid LO code offset information. value = 4096")
StringParameter	rowflag_13 (description="No valid LO code main information. value = 8192")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
QuantifiableParameter	waveunit (description="Units of the WaveColumn")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")

StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
LongParameter	loadInterval (description="Load period in seconds", quantity="s")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	pattAngle (description="Spectral map rotation angle", quantity="degrees")
DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")
DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
LongParameter	n_cycles (description="Number of cycle in the map", quantity="degrees")
LongParameter	n_linesperscan (description="Number of lines per scan", quantity="degrees")
LongParameter	superSampling (description="Supersampling factor in the map", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
StringParameter	badLoBand_4 (description="bad Lo in band", quantity="degrees")
LongParameter	Pipeline applied (description="Define which pipeline modules have been applied to the data.\u000A bit 0 = not used \u000A bit 1 = Scan count correction \u000A bit 3 = Dark correction \u000A bit 4 = Non Linearity correction \u000A bit 5 = Zero correction \u000A bit 6 = Frequency calibration applied \u000A", quantity="degrees")
BooleanParameter	isMasked (description="Bad Pixels have been flagged", quantity="degrees")
<i>Columns</i>	
<i>Int1d</i>	rasterLineNum (description="Raster line number", quantity="1")
<i>Double1d</i>	cmd_chopper (description="Commanded chopper positions", quantity="none")

<i>Double1d</i>	posAngle (description="Position Angle", quantity="deg")
<i>Int2d</i>	flag (description="flag", quantity="none")
<i>Double1d</i>	latitude (description="latitude (Decl in equatorial coord)", quantity="deg")
<i>Int1d</i>	nodCycleNum (description="Switching/nodding cycle number", quantity="1")
<i>Int2d</i>	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")
<i>Int1d</i>	bitshift (description="Bit Shift", quantity="none")
<i>Double1d</i>	MJC_Hor (description="Calibrated mixer junction current, horizontal band 1", quantity="mA")
<i>Double1d</i>	posAngleError (description="Position Angle errors", quantity="arcsec")
<i>Double1d</i>	longitudeError (description="longitude errors", quantity="arcsec")
<i>Double3d</i>	dark (description="Dark Current Data", quantity="none")
<i>Double2d</i>	flux (description="WBS flux (in counts)", quantity="none")
<i>Int1d</i>	scancount (description="Integrated Scan Count", quantity="none")
<i>Int1d</i>	buffer (description="Integration Buffer", quantity="none")
<i>Int1d</i>	rasterColumnNum (description="Raster Column number", quantity="1")
<i>Int1d</i>	df_transfer (description="DataFrame Transfer Counter", quantity="none")
<i>Double1d</i>	longitude (description="longitude (RA in equatorial coord)", quantity="deg")
<i>Int1d</i>	sequenceNumber (description="Integration Sequence Number", quantity="none")
<i>Double1d</i>	frequency_monitor (description="LSU Frequency Monitor", quantity="none")
<i>Int1d</i>	scanLineNum (description="Scan line number", quantity="1")
<i>Int1d</i>	bbnumber (description="Building Block Number", quantity="none")
<i>Long1d</i>	obsTime (description="Observation Time", quantity="none")
<i>Double1d</i>	MJC_Ver (description="Calibrated mixer junction current, vertical band 1", quantity="mA")
<i>Int1d</i>	rowflag (description="Dataframe Flag", quantity="none")
<i>Int1d</i>	bbtype (description="Building Block Type", quantity="none")
<i>Int1d</i>	IN_ATT (description="null", quantity="none")
<i>Int1d</i>	customMapPointNum (description="Custom map pointing number", quantity="1")
<i>Double1d</i>	latitudeError (description="latitude errors", quantity="arcsec")
<i>Bool1d</i>	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
<i>Double1d</i>	latitude_cmd (description="latitude (Decl in equatorial coord) average H and V", quantity="deg")
<i>Int1d</i>	nrbytes (description="Number of Bytes", quantity="none")
<i>Double2d</i>	channels (description="Channel", quantity="pixel")
<i>Long1d</i>	packetTime (description="Packetization Time", quantity="none")

<i>Double1d</i>	longitude_cmd (description="longitude (RA in equatorial coord) average H and V", quantity="deg")
<i>Int2d</i>	badLo (description="bit 0=Bad LO; bit 1=Weak_spur; bit 2=Strong_spur; bit 3=Strong_instability; bit 4=IF_saturation;", quantity="none")
<i>Int2d</i>	Band_ATT (description="null", quantity="none")
<i>Double1d</i>	LoFrequency (description="Local Oscillator Frequency", quantity="GHz")
<i>Double1d</i>	integrationTime (description="Integration duration in seconds", quantity="s")
<i>Int1d</i>	integrations (description="Number of Integrations", quantity="none")
<i>Double1d</i>	Chopper (description="Actual chopper positions", quantity="none")
<i>Int1d</i>	hk_transfer (description="hk_transfer", quantity="none")
<i>Double2d</i>	hot_cold (description="Hot and cold temperatures of the Blackbody Calibrator", quantity="K")

Chapter 3. PACS observation products

3.1. PACS Photometry Level-0 and Level-0.5 products

3.1.1. PACS Product Level 0 - HPEVENTS

<i>product (type="HPEVENTS", description="HPEVENTS")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfiguration (description="Mission Configuration")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")

DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	mapRasterRefOffset (description="???", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	mapRasterRefDec (description="???", quantity="arcsec")
DoubleParameter	mapRasterRefRa (description="???", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")

LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineId (description="HSPOT: line ID", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
StringParameter	level (description="Product Level", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
Columns	

<i>table dataset</i>	(name="HPEVENTS", description="Generated from PacketSequence \$Revision: 1.1 \$")	
<i>Metadata</i>		
<i>StringParameter</i>	revision (description="PacketSequence Revision from which this data was generated.")	
<i>Columns</i>		
<i>LongId</i>	Time (description="Time [microseconds]", quantity="microseconds")	
<i>LongId</i>	HD_SPARE_3 (description="HD_SPARE_3 [raw]", quantity="none")	
<i>LongId</i>	EVENT_SID (description="EVENT_SID [raw]", quantity="none")	
<i>StringId</i>	EVENT_COUNT_ID (description="EVENT_COUNT_ID", quantity="none")	
<i>LongId</i>	HD_VERSION_NUMB (description="HD_VERSION_NUMB [raw]", quantity="none")	
<i>LongId</i>	EVENT_OBSID (description="EVENT_OBSID [raw]", quantity="none")	
<i>LongId</i>	HD_LENGTH (description="HD_LENGTH [raw]", quantity="none")	
<i>LongId</i>	FIRST32BIT_TIME (description="FIRST32BIT_TIME [raw]", quantity="none")	
<i>LongId</i>	HD_APID (description="HD_APID [raw]", quantity="none")	
<i>LongId</i>	HD_SPARE_1 (description="HD_SPARE_1 [raw]", quantity="none")	
<i>LongId</i>	HD_PACKET_TYPE (description="HD_PACKET_TYPE [raw]", quantity="none")	
<i>DoubleId</i>	LAST_16BIT_TIME (description="LAST_16BIT_TIME [eng, s]", quantity="none")	
<i>LongId</i>	HD_SPARE_2 (description="HD_SPARE_2 [raw]", quantity="none")	
<i>LongId</i>	EVENT_BBID (description="EVENT_BBID [raw]", quantity="none")	
<i>LongId</i>	HD_PUS_VERSION (description="HD_PUS_VERSION [raw]", quantity="none")	
<i>LongId</i>	HD_SEG_FLAG (description="HD_SEG_FLAG [raw]", quantity="none")	
<i>LongId</i>	HD_PCKT_SUBTYPE (description="HD_PCKT_SUBTYPE [raw]", quantity="none")	
<i>StringId</i>	EVENT_ID (description="EVENT_ID", quantity="none")	
<i>LongId</i>	HD_SRC_SEQ_CTN (description="HD_SRC_SEQ_CTN [raw]", quantity="none")	
<i>LongId</i>	HD_DATA_FLAG (description="HD_DATA_FLAG [raw]", quantity="none")	
<i>LongId</i>	HD_SOURCE_TYPE (description="HD_SOURCE_TYPE [raw]", quantity="none")	
<i>LongId</i>	EVENT_COUNTER (description="EVENT_COUNTER [raw]", quantity="none")	
<i>DoubleId</i>	PACKET_COUNTER (description="PACKET_COUNTER [raw]", quantity="none")	
<i>DoubleId</i>	PARAMETER_A1 (description="PARAMETER_A1 [raw]", quantity="none")	

<i>DoubleId</i>	PACKET_ECHO2 (description="PACKET_ECHO2 [raw]", quantity="none")
<i>DoubleId</i>	STATE (description="STATE [raw]", quantity="none")
<i>DoubleId</i>	PACKET_ECHO1 (description="PACKET_ECHO1 [raw]", quantity="none")
<i>DoubleId</i>	FCS_CRC (description="FCS_CRC [raw]", quantity="none")
<i>DoubleId</i>	PARAMETER_A (description="PARAMETER_A [raw]", quantity="none")
<i>DoubleId</i>	PIX_VALUE (description="PIX_VALUE [raw]", quantity="none")
<i>DoubleId</i>	STATUS (description="STATUS [raw]", quantity="none")
<i>DoubleId</i>	SECOND_VALUE_1 (description="SECOND_VALUE_1 [raw]", quantity="none")
<i>DoubleId</i>	FIRST_VALUE_1 (description="FIRST_VALUE_1 [raw]", quantity="none")
<i>DoubleId</i>	FIRST_WORD (description="FIRST_WORD [raw]", quantity="none")
<i>DoubleId</i>	1355_LINK_5 (description="1355_LINK_5 [raw]", quantity="none")
<i>DoubleId</i>	SECOND_WORD (description="SECOND_WORD [raw]", quantity="none")
<i>DoubleId</i>	SECOND_VALUE_2 (description="SECOND_VALUE_2 [raw]", quantity="none")
<i>DoubleId</i>	FIRST_VALUE_2 (description="FIRST_VALUE_2 [raw]", quantity="none")
<i>DoubleId</i>	II_COMD_WORD_6 (description="II_COMD_WORD_6 [raw]", quantity="none")
<i>DoubleId</i>	II_ACK_WORD_6 (description="II_ACK_WORD_6 [raw]", quantity="none")
<i>DoubleId</i>	I_COMD_WORD_6 (description="I_COMD_WORD_6 [raw]", quantity="none")
<i>DoubleId</i>	1355_LINK_6 (description="1355_LINK_6 [raw]", quantity="none")
<i>DoubleId</i>	I_ACK_WORD_6 (description="I_ACK_WORD_6 [raw]", quantity="none")
<i>LongId</i>	RECEIVED_WORD_8 (description="RECEIVED_WORD_8 [raw]", quantity="none")
<i>StringId</i>	1355_LINK_8 (description="1355_LINK_8", quantity="none")
<i>LongId</i>	HEADER_8 (description="HEADER_8 [raw]", quantity="none")
<i>LongId</i>	EXPEC_LENGTH_8 (description="EXPEC_LENGTH_8 [raw]", quantity="none")

3.1.2. PACS Product Level 0 - HPTCVERS

<i>product</i> (type="HPTCVERS", description="HPTCVERS")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")

StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfiguration (description="Mission Configuration")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")

LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	mapRasterRefOffset (description="???", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	mapRasterRefDec (description="???", quantity="arcsec")
DoubleParameter	mapRasterRefRa (description="???", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineId (description="HSPOT: line ID", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")

StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
StringParameter	level (description="Product Level", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
<i>Columns</i>	
<i>table dataset</i>	(name="HPTCVERS", description="Generated from PacketSequence \$Revision: 1.1 \$")
<i>Metadata</i>	
StringParameter	revision (description="PacketSequence Revision from which this data was generated.")
<i>Columns</i>	
<i>LongId</i>	Time (description="Time [microseconds]", quantity="microseconds")
<i>LongId</i>	HD_SPARE_3 (description="HD_SPARE_3 [raw]", quantity="none")
<i>LongId</i>	HD_VERSION_NUMB (description="HD_VERSION_NUMB [raw]", quantity="none")
<i>LongId</i>	HD_LENGTH (description="HD_LENGTH [raw]", quantity="none")
<i>LongId</i>	HD_APID (description="HD_APID [raw]", quantity="none")
<i>LongId</i>	HD_SPARE_1 (description="HD_SPARE_1 [raw]", quantity="none")

<i>DoubleId</i>	HD_PACKET_TYPE (description="HD_PACKET_TYPE [raw]", quantity="none")
<i>LongId</i>	HD_SPARE_2 (description="HD_SPARE_2 [raw]", quantity="none")
<i>LongId</i>	HD_PUS_VERSION (description="HD_PUS_VERSION [raw]", quantity="none")
<i>LongId</i>	HD_SEG_FLAG (description="HD_SEG_FLAG [raw]", quantity="none")
<i>DoubleId</i>	HD_PCKT_SUBTYPE (description="HD_PCKT_SUBTYPE [raw]", quantity="none")
<i>LongId</i>	HD_SRC_SEQ_CTN (description="HD_SRC_SEQ_CTN [raw]", quantity="none")
<i>LongId</i>	HD_DATA_FLAG (description="HD_DATA_FLAG [raw]", quantity="none")
<i>LongId</i>	HD_TIME (description="HD_TIME [raw]", quantity="none")
<i>LongId</i>	HD_SOURCE_TYPE (description="HD_SOURCE_TYPE [raw]", quantity="none")
<i>LongId</i>	PCKT_SEQ_CONTR (description="PCKT_SEQ_CONTR [raw]", quantity="none")
<i>LongId</i>	TC_PACKET_TYPE (description="TC_PACKET_TYPE [raw]", quantity="none")
<i>LongId</i>	TC_PACKET_ID (description="TC_PACKET_ID [raw]", quantity="none")
<i>LongId</i>	TC_PCKT_SUBTYPE (description="TC_PCKT_SUBTYPE [raw]", quantity="none")
<i>LongId</i>	FIRST32BIT_TIME (description="FIRST32BIT_TIME [raw]", quantity="none")
<i>DoubleId</i>	LAST_16BIT_TIME (description="LAST_16BIT_TIME [eng, s]", quantity="none")

3.1.3. PACS Product Level 0 - HPGENHKS

<i>product</i> (type="HPGENHKS", description="HPGENHKS")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfiguration (description="Mission Configuration")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")

LongParameter	obsCount (description="Observation counter")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")

BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	mapRasterRefOffset (description="???", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	mapRasterRefDec (description="???", quantity="arcsec")
DoubleParameter	mapRasterRefRa (description="???", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	lWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineId (description="HSPOT: line ID", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")

DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
StringParameter	level (description="Product Level", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
<i>Columns</i>	
<i>table dataset</i>	(name="HPGENHKS", description="Generated from PacketSequence \$Revision: 1.1 \$")
<i>Metadata</i>	
StringParameter	revision (description="PacketSequence Revision from which this data was generated.")
<i>Columns</i>	
<i>LongId</i>	Time (description="Time [microseconds]", quantity="microseconds")
<i>DoubleId</i>	DM_CAL_SRC_TEMP (description="DM_CAL_SRC_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_SEQ_ERR_NS (description="DM_SEQ_ERR_NS", quantity="none")
<i>LongId</i>	DM_DBR_ERROR (description="DM_DBR_ERROR [raw]", quantity="none")
<i>StringId</i>	DP_BUFFER_STAT (description="DP_BUFFER_STAT", quantity="none")
<i>DoubleId</i>	BOL_TEMP_TS (description="BOL_TEMP_TS [eng, K]", quantity="none")
<i>StringId</i>	DM_DRR_SENDING (description="DM_DRR_SENDING", quantity="none")
<i>StringId</i>	DM_DRC_LINK (description="DM_DRC_LINK", quantity="none")
<i>LongId</i>	DM_HKD_SPARE3 (description="DM_HKD_SPARE3 [raw]", quantity="none")
<i>StringId</i>	DM_DBR_LINK (description="DM_DBR_LINK", quantity="none")
<i>StringId</i>	DM_BPE_ERR_NS (description="DM_BPE_ERR_NS", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_FPU (description="DP_EV_BOL_I_FPU", quantity="none")

<i>StringId</i>	DP_SPUL_CMD (description="DP_SPUL_CMD", quantity="none")
<i>StringId</i>	DM_DRR_ERR_NS (description="DM_DRR_ERR_NS", quantity="none")
<i>LongId</i>	DM_BLUE_PAC_ENC (description="DM_BLUE_PAC_ENC [raw]", quantity="none")
<i>DoubleId</i>	DM_SPU_VCC_CUR (description="DM_SPU_VCC_CUR [eng, A]", quantity="none")
<i>LongId</i>	DM_HK_CTRL_STAT (description="DM_HK_CTRL_STAT [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_T_FPU (description="DP_EV_BOL_T_FPU", quantity="none")
<i>LongId</i>	DM_PM_DF_IND (description="DM_PM_DF_IND [raw]", quantity="none")
<i>LongId</i>	DM_HKCO_ERROR (description="DM_HKCO_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_DPUS_SPARE4 (description="DM_DPUS_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DM_HKD_SPARE1 (description="DM_HKD_SPARE1 [raw]", quantity="none")
<i>LongId</i>	DM_DPU_REC_STAT (description="DM_DPU_REC_STAT [raw]", quantity="none")
<i>StringId</i>	DP_OBCP_MANAGER (description="DP_OBCP_MANAGER", quantity="none")
<i>LongId</i>	HD_SPARE_3 (description="HD_SPARE_3 [raw]", quantity="none")
<i>StringId</i>	DM_BC_ERR_NS (description="DM_BC_ERR_NS", quantity="none")
<i>StringId</i>	DP_DEC_LINK (description="DP_DEC_LINK", quantity="none")
<i>LongId</i>	HD_VERSION_NUMB (description="HD_VERSION_NUMB [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_SP (description="BOL_TEMP_SP [eng, K]", quantity="none")
<i>StringId</i>	DP_SPUS_HK (description="DP_SPUS_HK", quantity="none")
<i>LongId</i>	DM_DBR_SPARE2 (description="DM_DBR_SPARE2 [raw]", quantity="none")
<i>LongId</i>	DM_HKCO_SPARE5 (description="DM_HKCO_SPARE5 [raw]", quantity="none")
<i>StringId</i>	DM_HKCO_TASK_AL (description="DM_HKCO_TASK_AL", quantity="none")
<i>LongId</i>	HD_SPARE_1 (description="HD_SPARE_1 [raw]", quantity="none")
<i>LongId</i>	HD_PACKET_TYPE (description="HD_PACKET_TYPE [raw]", quantity="none")
<i>LongId</i>	HD_SPARE_2 (description="HD_SPARE_2 [raw]", quantity="none")
<i>LongId</i>	SPS_VID (description="SPS_VID [raw]", quantity="none")
<i>LongId</i>	SPS_MEM_CNTS (description="SPS_MEM_CNTS [raw]", quantity="none")
<i>StringId</i>	DM_FPU_GR_TS_ST (description="DM_FPU_GR_TS_ST", quantity="none")

<i>StringId</i>	DM_BC_TASK_AL (description="DM_BC_TASK_AL", quantity="none")
<i>StringId</i>	DM_BC_LINK (description="DM_BC_LINK", quantity="none")
<i>LongId</i>	DM_BR_ERROR (description="DM_BR_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_FPU_FWP_TS_S (description="DM_FPU_FWP_TS_S", quantity="none")
<i>StringId</i>	DP_SPUS_CMD (description="DP_SPUS_CMD", quantity="none")
<i>DoubleId</i>	DM_DSP_TEMP (description="DM_DSP_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_BR_SIM_TIME (description="DM_BR_SIM_TIME", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_4 (description="BOL_TEMP_R_4 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_5 (description="BOL_TEMP_R_5 [eng, degC]", quantity="none")
<i>StringId</i>	SPS_DMC_ERROR (description="SPS_DMC_ERROR", quantity="none")
<i>StringId</i>	DP_SPUL_LINK (description="DP_SPUL_LINK", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_1 (description="BOL_TEMP_R_1 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_2 (description="BOL_TEMP_R_2 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_3 (description="BOL_TEMP_R_3 [eng, degC]", quantity="none")
<i>StringId</i>	DM_SW_ALIVE (description="DM_SW_ALIVE", quantity="none")
<i>StringId</i>	DM_SEQ_RUNNING (description="DM_SEQ_RUNNING", quantity="none")
<i>StringId</i>	DM_DPUR_TASK_AL (description="DM_DPUR_TASK_AL", quantity="none")
<i>DoubleId</i>	LAST_16BIT_TIME (description="LAST_16BIT_TIME [eng, s]", quantity="none")
<i>StringId</i>	DM_DRR_TASK_WR (description="DM_DRR_TASK_WR", quantity="none")
<i>DoubleId</i>	BOL_TEMP_B_3 (description="BOL_TEMP_B_3 [eng, degC]", quantity="none")
<i>StringId</i>	DM_DBR_TASK_AL (description="DM_DBR_TASK_AL", quantity="none")
<i>LongId</i>	DP_GEN_TM_LOST (description="DP_GEN_TM_LOST [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_B_2 (description="BOL_TEMP_B_2 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_B_1 (description="BOL_TEMP_B_1 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_DAQ (description="BOL_TEMP_DAQ [eng, degC]", quantity="none")
<i>StringId</i>	DP_TEST_MODE (description="DP_TEST_MODE", quantity="none")

<i>LongId</i>	DM_CHOP_CUR_POS (description="DM_CHOP_CUR_POS [raw]", quantity="none")
<i>StringId</i>	DM_RPE_TASK_AL (description="DM_RPE_TASK_AL", quantity="none")
<i>DoubleId</i>	DM_FW_PHOT_TEMP (description="DM_FW_PHOT_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DP_BLUE_SCIENCE (description="DP_BLUE_SCIENCE", quantity="none")
<i>StringId</i>	DP_UNIT (description="DP_UNIT", quantity="none")
<i>StringId</i>	DP_DMC_CMD (description="DP_DMC_CMD", quantity="none")
<i>LongId</i>	DM_TIME_2 (description="DM_TIME_2 [raw]", quantity="none")
<i>LongId</i>	DM_DRR_ERROR (description="DM_DRR_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_TIME_1 (description="DM_TIME_1 [raw]", quantity="none")
<i>LongId</i>	DP_SPUS_LINK_PE (description="DP_SPUS_LINK_PE [raw]", quantity="none")
<i>LongId</i>	DM_BR_SPARE2 (description="DM_BR_SPARE2 [raw]", quantity="none")
<i>LongId</i>	DM_PM_SF_IND (description="DM_PM_SF_IND [raw]", quantity="none")
<i>LongId</i>	DM_BPE_ERROR (description="DM_BPE_ERROR [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_EV (description="BOL_TEMP_EV [eng, K]", quantity="none")
<i>LongId</i>	DP_COM_SPL_PACK (description="DP_COM_SPL_PACK [raw]", quantity="none")
<i>StringId</i>	DM_DBC_LINK (description="DM_DBC_LINK", quantity="none")
<i>StringId</i>	DM_DPUS_ERR_NS (description="DM_DPUS_ERR_NS", quantity="none")
<i>StringId</i>	DM_FWPH_CUR_POS (description="DM_FWPH_CUR_POS", quantity="none")
<i>LongId</i>	DM_DPUS_ERROR (description="DM_DPUS_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_HKD_TASK_WR (description="DM_HKD_TASK_WR", quantity="none")
<i>StringId</i>	DP_STABLE_SPS (description="DP_STABLE_SPS", quantity="none")
<i>LongId</i>	DM_DECB_CTRL_PA (description="DM_DECB_CTRL_PA [raw]", quantity="none")
<i>LongId</i>	DM_BOL_READ_CNT (description="DM_BOL_READ_CNT [raw]", quantity="none")
<i>StringId</i>	DM_HKCO_ERR_NS (description="DM_HKCO_ERR_NS", quantity="none")
<i>LongId</i>	FIRST32BIT_TIME (description="FIRST32BIT_TIME [raw]", quantity="none")
<i>StringId</i>	DM_HKD_DIAGMODE (description="DM_HKD_DIAGMODE", quantity="none")

<i>StringId</i>	DP_1553_HANDLER (description="DP_1553_HANDLER", quantity="none")
<i>StringId</i>	DM_DRC_TASK_AL (description="DM_DRC_TASK_AL", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF12 (description="DM_LAST_ER_BF12 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF13 (description="DM_LAST_ER_BF13 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF14 (description="DM_LAST_ER_BF14 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF15 (description="DM_LAST_ER_BF15 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF10 (description="DM_LAST_ER_BF10 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF11 (description="DM_LAST_ER_BF11 [raw]", quantity="none")
<i>LongId</i>	DM_RPE_ERROR (description="DM_RPE_ERROR [raw]", quantity="none")
<i>DoubleId</i>	DM_PSC_V2 (description="DM_PSC_V2 [eng, mA]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF16 (description="DM_LAST_ER_BF16 [raw]", quantity="none")
<i>DoubleId</i>	DM_PSC_V1 (description="DM_PSC_V1 [eng, A]", quantity="none")
<i>DoubleId</i>	DM_PSC_V4 (description="DM_PSC_V4 [eng, A]", quantity="none")
<i>StringId</i>	DP_EEPROM_PROT (description="DP_EEPROM_PROT", quantity="none")
<i>DoubleId</i>	DM_PSC_V3 (description="DM_PSC_V3 [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_SPU_PS_TEMP (description="DM_SPU_PS_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_HKD_ERR_NS (description="DM_HKD_ERR_NS", quantity="none")
<i>LongId</i>	DP_COM_DMC (description="DP_COM_DMC [raw]", quantity="none")
<i>StringId</i>	DP_OBCP_RUN (description="DP_OBCP_RUN", quantity="none")
<i>StringId</i>	DP_IRQ3_TASK (description="DP_IRQ3_TASK", quantity="none")
<i>DoubleId</i>	DM_FPU_T2_TEMP (description="DM_FPU_T2_TEMP [eng, K]", quantity="none")
<i>DoubleId</i>	DM_REF_VOLT_0V (description="DM_REF_VOLT_0V [eng, V]", quantity="none")
<i>StringId</i>	DM_FPU_S1_TS_ST (description="DM_FPU_S1_TS_ST", quantity="none")
<i>LongId</i>	SID (description="SID [raw]", quantity="none")
<i>LongId</i>	SPS_PIX (description="SPS_PIX [raw]", quantity="none")
<i>DoubleId</i>	BOL_HEATER_FPU (description="BOL_HEATER_FPU [eng, A]", quantity="none")

<i>StringId</i>	DM_BPE_TASK_AL (description="DM_BPE_TASK_AL", quantity="none")
<i>StringId</i>	DM_FPU_CH_TS_ST (description="DM_FPU_CH_TS_ST", quantity="none")
<i>DoubleId</i>	DM_CPU_LOAD (description="DM_CPU_LOAD [eng, %]", quantity="none")
<i>LongId</i>	DM_BBID (description="DM_BBID [raw]", quantity="none")
<i>StringId</i>	DP_STABLE_SPL (description="DP_STABLE_SPL", quantity="none")
<i>StringId</i>	DM_DBR_ERR_NS (description="DM_DBR_ERR_NS", quantity="none")
<i>StringId</i>	DM_DPUR_ERR_NS (description="DM_DPUR_ERR_NS", quantity="none")
<i>StringId</i>	DM_FPU_FWS_TS_S (description="DM_FPU_FWS_TS_S", quantity="none")
<i>StringId</i>	SPS_DMC_LINK (description="SPS_DMC_LINK", quantity="none")
<i>DoubleId</i>	DM_FPU_T1_TEMP (description="DM_FPU_T1_TEMP [eng, K]", quantity="none")
<i>LongId</i>	SPL_VID (description="SPL_VID [raw]", quantity="none")
<i>LongId</i>	DM_BOL_CTRL_PAC (description="DM_BOL_CTRL_PAC [raw]", quantity="none")
<i>DoubleId</i>	BOL_HEAT_SP_SWT (description="BOL_HEAT_SP_SWT [eng, A]", quantity="none")
<i>LongId</i>	DP_COM_DMC_PACK (description="DP_COM_DMC_PACK [raw]", quantity="none")
<i>LongId</i>	DM_DECR_CTRL_PA (description="DM_DECR_CTRL_PA [raw]", quantity="none")
<i>LongId</i>	DM_BLUE_ENC_PAC (description="DM_BLUE_ENC_PAC [raw]", quantity="none")
<i>LongId</i>	DP_SPUL_LINK_DE (description="DP_SPUL_LINK_DE [raw]", quantity="none")
<i>DoubleId</i>	DM_SPU_VP_CUR (description="DM_SPU_VP_CUR [eng, mA]", quantity="none")
<i>LongId</i>	HD_APIID (description="HD_APIID [raw]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_2R (description="BOL_I_HEATER_2R [eng, A]", quantity="none")
<i>LongId</i>	DM_DRC_SPARE3 (description="DM_DRC_SPARE3 [raw]", quantity="none")
<i>LongId</i>	HD_SEG_FLAG (description="HD_SEG_FLAG [raw]", quantity="none")
<i>StringId</i>	DP_STABLE_DEC (description="DP_STABLE_DEC", quantity="none")
<i>LongId</i>	DM_BOL_STATUS (description="DM_BOL_STATUS [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ERR_ID (description="DM_LAST_ERR_ID [raw]", quantity="none")

<i>LongId</i>	DM_B_SPEC_READ (description="DM_B_SPEC_READ [raw]", quantity="none")
<i>LongId</i>	DM_RED_ENC_PAC (description="DM_RED_ENC_PAC [raw]", quantity="none")
<i>StringId</i>	DP_EV_DEC_SPC (description="DP_EV_DEC_SPC", quantity="none")
<i>DoubleId</i>	DM_SPU_VCC_VOL (description="DM_SPU_VCC_VOL [eng, V]", quantity="none")
<i>StringId</i>	DP_SPL_LINK (description="DP_SPL_LINK", quantity="none")
<i>LongId</i>	DM_IRS_CNT (description="DM_IRS_CNT [raw]", quantity="none")
<i>DoubleId</i>	DM_CHOPPER_TEMP (description="DM_CHOPPER_TEMP [eng, K]", quantity="none")
<i>StringId</i>	SPL_DMC_LINK (description="SPL_DMC_LINK", quantity="none")
<i>LongId</i>	DM_SW_SPARE5 (description="DM_SW_SPARE5 [raw]", quantity="none")
<i>LongId</i>	DP_COM_SPS_NACK (description="DP_COM_SPS_NACK [raw]", quantity="none")
<i>StringId</i>	DM_BR_TASK_WR (description="DM_BR_TASK_WR", quantity="none")
<i>LongId</i>	DM_BPE_SPARE4 (description="DM_BPE_SPARE4 [raw]", quantity="none")
<i>StringId</i>	DM_DBR_SENDING (description="DM_DBR_SENDING", quantity="none")
<i>LongId</i>	DP_DEC_LINK_PE (description="DP_DEC_LINK_PE [raw]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_1R (description="BOL_I_HEATER_1R [eng, A]", quantity="none")
<i>LongId</i>	DP_TC_LOST (description="DP_TC_LOST [raw]", quantity="none")
<i>StringId</i>	DP_RED_SCIENCE (description="DP_RED_SCIENCE", quantity="none")
<i>DoubleId</i>	SPS_CPUWORKLOAD (description="SPS_CPUWORKLOAD [eng, %]", quantity="none")
<i>StringId</i>	DM_DBC_TASK_WR (description="DM_DBC_TASK_WR", quantity="none")
<i>LongId</i>	DP_COM_SPUS (description="DP_COM_SPUS [raw]", quantity="none")
<i>LongId</i>	HD_SRC_SEQ_CTN (description="HD_SRC_SEQ_CTN [raw]", quantity="none")
<i>StringId</i>	DM_DPUR_TASK_WR (description="DM_DPUR_TASK_WR", quantity="none")
<i>LongId</i>	DP_COM_SPUL (description="DP_COM_SPUL [raw]", quantity="none")
<i>StringId</i>	DM_SEQ_TASK_AL (description="DM_SEQ_TASK_AL", quantity="none")
<i>DoubleId</i>	BOL_TEMP_SP_SWT (description="BOL_TEMP_SP_SWT [eng, K]", quantity="none")

<i>DoubleId</i>	BOL_I_HEATER_B2 (description="BOL_I_HEATER_B2 [eng, A]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B3 (description="BOL_I_HEATER_B3 [eng, A]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B4 (description="BOL_I_HEATER_B4 [eng, A]", quantity="none")
<i>StringId</i>	DM_RPE_LINK (description="DM_RPE_LINK", quantity="none")
<i>LongId</i>	DM_SEQ_STATUS (description="DM_SEQ_STATUS [raw]", quantity="none")
<i>LongId</i>	DM_DBC_SPARE3 (description="DM_DBC_SPARE3 [raw]", quantity="none")
<i>LongId</i>	DM_RPE_SPARE4 (description="DM_RPE_SPARE4 [raw]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B1 (description="BOL_I_HEATER_B1 [eng, A]", quantity="none")
<i>StringId</i>	DM_RPE_TASK_WR (description="DM_RPE_TASK_WR", quantity="none")
<i>StringId</i>	DP_WHICH_OBCP (description="DP_WHICH_OBCP", quantity="none")
<i>StringId</i>	DP_1553CHANNEL (description="DP_1553CHANNEL", quantity="none")
<i>LongId</i>	DM_DECB_CTRL_ST (description="DM_DECB_CTRL_ST [raw]", quantity="none")
<i>StringId</i>	DM_DBC_POWER (description="DM_DBC_POWER", quantity="none")
<i>LongId</i>	DP_COM_DMC_NACK (description="DP_COM_DMC_NACK [raw]", quantity="none")
<i>StringId</i>	DM_DRC_POWER (description="DM_DRC_POWER", quantity="none")
<i>StringId</i>	DP_COUNTER_SPS (description="DP_COUNTER_SPS", quantity="none")
<i>StringId</i>	DM_BR_TASK_AL (description="DM_BR_TASK_AL", quantity="none")
<i>LongId</i>	DM_DPUR_SPARE4 (description="DM_DPUR_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DP_SW_SUBVERS_ID (description="DP_SW_SUBVERS_ID [raw]", quantity="none")
<i>StringId</i>	DM_BPE_LINK (description="DM_BPE_LINK", quantity="none")
<i>LongId</i>	DP_COM_REC_DPU (description="DP_COM_REC_DPU [raw]", quantity="none")
<i>StringId</i>	DM_DPUS_TASK_WR (description="DM_DPUS_TASK_WR", quantity="none")
<i>StringId</i>	DM_DBC_TASK_AL (description="DM_DBC_TASK_AL", quantity="none")
<i>LongId</i>	DM_R_SPEC_READ (description="DM_R_SPEC_READ [raw]", quantity="none")
<i>LongId</i>	DM_DM_SF_IND (description="DM_DM_SF_IND [raw]", quantity="none")

<i>StringId</i>	DM_SEQ_IDLE (description="DM_SEQ_IDLE", quantity="none")
<i>LongId</i>	DM_RED_PAC_ENC (description="DM_RED_PAC_ENC [raw]", quantity="none")
<i>LongId</i>	DM_FPU_T_SEN_ST (description="DM_FPU_T_SEN_ST [raw]", quantity="none")
<i>StringId</i>	DM_HKD_TASK_AL (description="DM_HKD_TASK_AL", quantity="none")
<i>LongId</i>	DM_DECB_REC_STA (description="DM_DECB_REC_STA [raw]", quantity="none")
<i>LongId</i>	DM_BOL_CTRL_STA (description="DM_BOL_CTRL_STA [raw]", quantity="none")
<i>StringId</i>	DM_DRC_ERR_NS (description="DM_DRC_ERR_NS", quantity="none")
<i>DoubleId</i>	DM_REF_VOLT_5V (description="DM_REF_VOLT_5V [eng, V]", quantity="none")
<i>StringId</i>	DP_CONTROLLER (description="DP_CONTROLLER", quantity="none")
<i>LongId</i>	DM_DPU_SEN_STAT (description="DM_DPU_SEN_STAT [raw]", quantity="none")
<i>LongId</i>	DP_COM_SPL_NACK (description="DP_COM_SPL_NACK [raw]", quantity="none")
<i>LongId</i>	SPL_CI (description="SPL_CI [raw]", quantity="none")
<i>LongId</i>	HD_SOURCE_TYPE (description="HD_SOURCE_TYPE [raw]", quantity="none")
<i>DoubleId</i>	BOL_HEAT_EV_SWT (description="BOL_HEAT_EV_SWT [eng, A]", quantity="none")
<i>LongId</i>	DM_HKD_ERROR (description="DM_HKD_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_SW_GLOBAL_ST (description="DM_SW_GLOBAL_ST [raw]", quantity="none")
<i>StringId</i>	DM_BR_ERR_NS (description="DM_BR_ERR_NS", quantity="none")
<i>DoubleId</i>	DP_T (description="DP_T [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_PSU_2 (description="BOL_TEMP_PSU_2 [eng, degC]", quantity="none")
<i>LongId</i>	DM_DECB_REC_PAC (description="DM_DECB_REC_PAC [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_PSU_1 (description="BOL_TEMP_PSU_1 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_7 (description="BOL_PWR_ANA_P_7 [eng, V]", quantity="none")
<i>LongId</i>	DP_SPUL_LINK_PE (description="DP_SPUL_LINK_PE [raw]", quantity="none")
<i>StringId</i>	DP_BURST_MODE (description="DP_BURST_MODE", quantity="none")
<i>LongId</i>	DM_DPU_SEND_PAC (description="DM_DPU_SEND_PAC [raw]", quantity="none")

<i>StringId</i>	DM_FPU_S2_TS_ST (description="DM_FPU_S2_TS_ST", quantity="none")
<i>StringId</i>	DP_DMC_LINK (description="DP_DMC_LINK", quantity="none")
<i>LongId</i>	DM_VID (description="DM_VID [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF5 (description="DM_LAST_ER_BF5 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF6 (description="DM_LAST_ER_BF6 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF3 (description="DM_LAST_ER_BF3 [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_V_PWR (description="DP_EV_BOL_V_PWR", quantity="none")
<i>LongId</i>	SPL_PIX (description="SPL_PIX [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF4 (description="DM_LAST_ER_BF4 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF9 (description="DM_LAST_ER_BF9 [raw]", quantity="none")
<i>LongId</i>	DM_BOL_REC_STAT (description="DM_BOL_REC_STAT [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF7 (description="DM_LAST_ER_BF7 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF8 (description="DM_LAST_ER_BF8 [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_SP2 (description="DP_EV_BOL_I_SP2", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF1 (description="DM_LAST_ER_BF1 [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_BIAS (description="DP_EV_BOL_BIAS", quantity="none")
<i>LongId</i>	DM_HK_DIAG_STAT (description="DM_HK_DIAG_STAT [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF2 (description="DM_LAST_ER_BF2 [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_SP1 (description="DP_EV_BOL_I_SP1", quantity="none")
<i>StringId</i>	DP_COUNTER_DEC (description="DP_COUNTER_DEC", quantity="none")
<i>LongId</i>	DP_STATUS (description="DP_STATUS [raw]", quantity="none")
<i>StringId</i>	DP_EVENT_DEC (description="DP_EVENT_DEC", quantity="none")
<i>LongId</i>	DM_DPUR_ERROR (description="DM_DPUR_ERROR [raw]", quantity="none")
<i>StringId</i>	DP_SPS_LINK (description="DP_SPS_LINK", quantity="none")
<i>LongId</i>	DP_COM_REJ_DPU (description="DP_COM_REJ_DPU [raw]", quantity="none")
<i>LongId</i>	DM_GRAT_CUR_POS (description="DM_GRAT_CUR_POS [raw]", quantity="none")

<i>LongId</i>	DM_DM_DF_IND (description="DM_DM_DF_IND [raw]", quantity="none")
<i>StringId</i>	DM_RPE_ERR_NS (description="DM_RPE_ERR_NS", quantity="none")
<i>LongId</i>	DM_OBSID (description="DM_OBSID [raw]", quantity="none")
<i>StringId</i>	DP_HK_MONITOR (description="DP_HK_MONITOR", quantity="none")
<i>LongId</i>	DM_DECR_REC_STA (description="DM_DECR_REC_STA [raw]", quantity="none")
<i>StringId</i>	DM_DBC_ERR_NS (description="DM_DBC_ERR_NS", quantity="none")
<i>DoubleId</i>	DM_SPU_PSU_P15V (description="DM_SPU_PSU_P15V [eng, V]", quantity="none")
<i>DoubleId</i>	DM_SPU_LWL_TEMP (description="DM_SPU_LWL_TEMP [eng, K]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_5 (description="DM_CUSTOM_ENT_5 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_4 (description="DM_CUSTOM_ENT_4 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_7 (description="DM_CUSTOM_ENT_7 [raw]", quantity="none")
<i>LongId</i>	DP_DEC_LINK_DE (description="DP_DEC_LINK_DE [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_6 (description="DM_CUSTOM_ENT_6 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_9 (description="DM_CUSTOM_ENT_9 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_8 (description="DM_CUSTOM_ENT_8 [raw]", quantity="none")
<i>StringId</i>	DP_HK_CHK (description="DP_HK_CHK", quantity="none")
<i>LongId</i>	DM_DECR_CTRL_ST (description="DM_DECR_CTRL_ST [raw]", quantity="none")
<i>LongId</i>	HD_DATA_FLAG (description="HD_DATA_FLAG [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_1 (description="DM_CUSTOM_ENT_1 [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_T_WE (description="DP_EV_BOL_T_WE", quantity="none")
<i>StringId</i>	DM_DRC_TASK_WR (description="DM_DRC_TASK_WR", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_3 (description="DM_CUSTOM_ENT_3 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_2 (description="DM_CUSTOM_ENT_2 [raw]", quantity="none")
<i>StringId</i>	DM_DPUS_LINK (description="DM_DPUS_LINK", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_7 (description="BOL_PWR_DIG_7 [eng, V]", quantity="none")

<i>LongId</i>	DM_BC_SPARE4 (description="DM_BC_SPARE4 [raw]", quantity="none")
<i>StringId</i>	DM_DBR_SIM_TIME (description="DM_DBR_SIM_TIME", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_RO (description="DP_EV_BOL_I_RO", quantity="none")
<i>StringId</i>	DM_SW_COPY_OBS (description="DM_SW_COPY_OBS", quantity="none")
<i>StringId</i>	DM_SEQ_TASK_WR (description="DM_SEQ_TASK_WR", quantity="none")
<i>StringId</i>	DM_SW_ERR (description="DM_SW_ERR", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU_ST (description="BOL_TEMP_FPU_ST [eng, K]", quantity="none")
<i>StringId</i>	DM_FWSP_CUR_POS (description="DM_FWSP_CUR_POS", quantity="none")
<i>StringId</i>	DM_BR_SENDING (description="DM_BR_SENDING", quantity="none")
<i>StringId</i>	DP_EVENT_SPU (description="DP_EVENT_SPU", quantity="none")
<i>StringId</i>	DM_DPUS_TASK_AL (description="DM_DPUS_TASK_AL", quantity="none")
<i>StringId</i>	DM_DPUR_LINK (description="DM_DPUR_LINK", quantity="none")
<i>DoubleId</i>	DP_VOL_15P (description="DP_VOL_15P [eng, V]", quantity="none")
<i>StringId</i>	DM_FPU_CS_TS_ST (description="DM_FPU_CS_TS_ST", quantity="none")
<i>DoubleId</i>	DM_FW_SPEC_TEMP (description="DM_FW_SPEC_TEMP [eng, K]", quantity="none")
<i>DoubleId</i>	DP_VOL_15N (description="DP_VOL_15N [eng, V]", quantity="none")
<i>StringId</i>	DM_BR_LINK (description="DM_BR_LINK", quantity="none")
<i>StringId</i>	DM_HKCO_TASK_WR (description="DM_HKCO_TASK_WR", quantity="none")
<i>LongId</i>	SPS_CI (description="SPS_CI [raw]", quantity="none")
<i>StringId</i>	DM_DRR_TASK_AL (description="DM_DRR_TASK_AL", quantity="none")
<i>DoubleId</i>	DP_WORK_LOAD (description="DP_WORK_LOAD [eng, %]", quantity="none")
<i>LongId</i>	DP_HK_LOST (description="DP_HK_LOST [raw]", quantity="none")
<i>DoubleId</i>	DM_GRATING_TEMP (description="DM_GRATING_TEMP [eng, K]", quantity="none")
<i>LongId</i>	HD_LENGTH (description="HD_LENGTH [raw]", quantity="none")
<i>LongId</i>	DP_COM_SPS_PACK (description="DP_COM_SPS_PACK [raw]", quantity="none")
<i>LongId</i>	DP_1_8_REJECTED (description="DP_1_8_REJECTED [raw]", quantity="none")

<i>LongId</i>	DM_DRR_SPARE2 (description="DM_DRR_SPARE2 [raw]", quantity="none")
<i>LongId</i>	DM_SEQ_ERROR (description="DM_SEQ_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_DRC_ERROR (description="DM_DRC_ERROR [raw]", quantity="none")
<i>StringId</i>	DP_1355_LINK (description="DP_1355_LINK", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU1 (description="BOL_TEMP_FPU1 [eng, K]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU2 (description="BOL_TEMP_FPU2 [eng, K]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_EV_SWT (description="BOL_TEMP_EV_SWT [eng, K]", quantity="none")
<i>LongId</i>	HD_PCKT_SUBTYPE (description="HD_PCKT_SUBTYPE [raw]", quantity="none")
<i>LongId</i>	DM_DBC_ERROR (description="DM_DBC_ERROR [raw]", quantity="none")
<i>LongId</i>	DP_1_2_REJECTED (description="DP_1_2_REJECTED [raw]", quantity="none")
<i>StringId</i>	DM_BPE_TASK_WR (description="DM_BPE_TASK_WR", quantity="none")
<i>StringId</i>	DP_AF_24_SPARE (description="DP_AF_24_SPARE", quantity="none")
<i>LongId</i>	DM_SW_ERROR (description="DM_SW_ERROR [raw]", quantity="none")
<i>DoubleId</i>	DM_DCDC_TEMP (description="DM_DCDC_TEMP [eng, K]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT10 (description="DM_CUSTOM_ENT10 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_7 (description="BOL_PWR_ANA_N_7 [eng, V]", quantity="none")
<i>StringId</i>	DP_1355_HANDLER (description="DP_1355_HANDLER", quantity="none")
<i>StringId</i>	SPL_DMC_ERROR (description="SPL_DMC_ERROR", quantity="none")
<i>DoubleId</i>	DM_SPU_SWL_TEMP (description="DM_SPU_SWL_TEMP [eng, K]", quantity="none")
<i>LongId</i>	DM_HK_DIAG_PERI (description="DM_HK_DIAG_PERI [raw]", quantity="none")
<i>StringId</i>	DM_DRR_SIM_TIME (description="DM_DRR_SIM_TIME", quantity="none")
<i>LongId</i>	HD_PUS_VERSION (description="HD_PUS_VERSION [raw]", quantity="none")
<i>LongId</i>	DP_SPARE (description="DP_SPARE [raw]", quantity="none")
<i>LongId</i>	DP_SW_VERS_ID (description="DP_SW_VERS_ID [raw]", quantity="none")
<i>StringId</i>	DP_SPUL_HK (description="DP_SPUL_HK", quantity="none")

<i>LongId</i>	DM_BOL_REC_PAC (description="DM_BOL_REC_PAC [raw]", quantity="none")
<i>StringId</i>	DP_COUNTER_SPEC (description="DP_COUNTER_SPEC", quantity="none")
<i>DoubleId</i>	DP_VOL_25P (description="DP_VOL_25P [eng, V]", quantity="none")
<i>LongId</i>	DP_EVENT_LOST (description="DP_EVENT_LOST [raw]", quantity="none")
<i>StringId</i>	DM_DRR_LINK (description="DM_DRR_LINK", quantity="none")
<i>DoubleId</i>	SPL_CPUWORKLOAD (description="SPL_CPUWORKLOAD [eng, %]", quantity="none")
<i>StringId</i>	DM_DBR_TASK_WR (description="DM_DBR_TASK_WR", quantity="none")
<i>StringId</i>	DP_SPUS_LINK (description="DP_SPUS_LINK", quantity="none")
<i>StringId</i>	DP_EVENT_DPU (description="DP_EVENT_DPU", quantity="none")
<i>LongId</i>	DM_SEQ_SPARE2 (description="DM_SEQ_SPARE2 [raw]", quantity="none")
<i>DoubleId</i>	DP_VOL_5P (description="DP_VOL_5P [eng, V]", quantity="none")
<i>LongId</i>	DM_DPU_REC_PAC (description="DM_DPU_REC_PAC [raw]", quantity="none")
<i>StringId</i>	DP_COUNTER_SPL (description="DP_COUNTER_SPL", quantity="none")
<i>LongId</i>	DM_SEQ_SPARE1 (description="DM_SEQ_SPARE1 [raw]", quantity="none")
<i>StringId</i>	DM_BC_TASK_WR (description="DM_BC_TASK_WR", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_HEA (description="DP_EV_BOL_I_HEA", quantity="none")
<i>StringId</i>	DP_INIT (description="DP_INIT", quantity="none")
<i>LongId</i>	SPL_MEM_CNTS (description="SPL_MEM_CNTS [raw]", quantity="none")
<i>DoubleId</i>	BOL_HEATER_SP (description="BOL_HEATER_SP [eng, A]", quantity="none")
<i>StringId</i>	DP_COUNTER_PHOT (description="DP_COUNTER_PHOT", quantity="none")
<i>LongId</i>	DP_AF_STATUS (description="DP_AF_STATUS [raw]", quantity="none")
<i>LongId</i>	DM_DECR_REC_PAC (description="DM_DECR_REC_PAC [raw]", quantity="none")
<i>LongId</i>	DP_SPUS_LINK_DE (description="DP_SPUS_LINK_DE [raw]", quantity="none")
<i>StringId</i>	DP_TM_RATE (description="DP_TM_RATE", quantity="none")
<i>StringId</i>	DP_DMC_HK (description="DP_DMC_HK", quantity="none")
<i>LongId</i>	DM_BC_ERROR (description="DM_BC_ERROR [raw]", quantity="none")

3.1.4. PACS Product Level 0 - DecMec Data Spectrometer blue

<i>product (type="HPSDMCBS", description="DecMec Data Spectrometer blue")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
StringParameter	level (description="Product Level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")

DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	mapRasterRefOffset (description="???", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	mapRasterRefDec (description="???", quantity="arcsec")
DoubleParameter	mapRasterRefRa (description="???", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")

LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineId (description="HSPOT: line ID", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
<i>Columns</i>	
<i>table dataset</i>	(name="DmcHeader", description="Status")
<i>Metadata</i>	

StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
LongParameter	DIM2 (description="Number of measures per status parameter")
Columns	
Int1d	RESETINDEX (description="Indicates the reset index of the status parameters", quantity="none")
Int1d	OBSID (description="Identifier of the observation", quantity="none")
Int1d	BBID (description="Building block type", quantity="none")
Int2d	LBL (description="Label", quantity="none")
Int2d	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
Int2d	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
Long2d	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
Int2d	VLD (description="Validity flag set by DecMec", quantity="none")
Int2d	CPR (description="Chopper position", quantity="none")
Int2d	WPR (description="Filter wheel Position", quantity="none")
Int2d	GPR (description="Grating Position", quantity="none")
Int2d	CRCRMP (description="Readout counter within an integration ramp", quantity="none")
Int2d	RRR (description="Readouts in Ramp", quantity="none")
Int2d	CRDC (description="Current Readout counter since last time reset", quantity="none")
Int2d	CRECR (description="CRE status word", quantity="none")

3.1.5. PACS Product Level 0 - DecMec Data Spectrometer red

<i>product (type="HPSDMCRS", description="DecMec Data Spectrometer red")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")

StringParameter	level (description="Product Level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")

StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	mapRasterRefOffset (description="???", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	mapRasterRefDec (description="???", quantity="arcsec")
DoubleParameter	mapRasterRefRa (description="???", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	lWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineId (description="HSPOT: line ID", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")

DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
<i>Columns</i>	
<i>table dataset</i>	(name="DmcHeader", description="Status")
<i>Metadata</i>	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
LongParameter	DIM2 (description="Number of measures per status parameter")
<i>Columns</i>	
<i>Int1d</i>	RESETINDEX (description="Indicates the reset index of the status parameters", quantity="none")
<i>Int1d</i>	OBSID (description="Identifier of the observation", quantity="none")
<i>Int1d</i>	BBID (description="Building block type", quantity="none")
<i>Int2d</i>	LBL (description="Label", quantity="none")
<i>Int2d</i>	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
<i>Int2d</i>	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
<i>Long2d</i>	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
<i>Int2d</i>	VLD (description="Validity flag set by DecMec", quantity="none")
<i>Int2d</i>	CPR (description="Chopper position", quantity="none")
<i>Int2d</i>	WPR (description="Filter wheel Position", quantity="none")
<i>Int2d</i>	GPR (description="Grating Position", quantity="none")

	<i>Int2d</i>	CRCRMP (description="Readout counter within an integration ramp", quantity="none")
	<i>Int2d</i>	RRR (description="Readouts in Ramp", quantity="none")
	<i>Int2d</i>	CRDC (description="Current Readout counter since last time reset", quantity="none")
	<i>Int2d</i>	CRECR (description="CRE status word", quantity="none")

3.1.6. PACS Product Level 0 - Fitted Data Spectrometer blue

<i>product (type="HPSFITBS", description="Fitted Data Spectrometer blue")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product Level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")

StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")

BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	mapRasterRefOffset (description="???", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	mapRasterRefDec (description="???", quantity="arcsec")
DoubleParameter	mapRasterRefRa (description="???", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	lWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineId (description="HSPOT: line ID", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")

StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
<i>Columns</i>	
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double3d</i>	(description="null", quantity="none")

3.1.7. PACS Product Level 0 - Fitted Data Spectrometer red

<i>product (type="HPSFITRS", description="Fitted Data Spectrometer red")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")

DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product Level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")

DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	mapRasterRefOffset (description="???", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	mapRasterRefDec (description="???", quantity="arcsec")
DoubleParameter	mapRasterRefRa (description="???", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	lWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineId (description="HSPOT: line ID", quantity="deg")

StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
<i>Columns</i>	
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double3d</i>	(description="null", quantity="none")

3.1.8. PACS Product Level 0 - HPSHKS

<i>product (type="HPSHKS", description="HPSHKS")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")

StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfiguration (description="Mission Configuration")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")

StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	mapRasterRefOffset (description="???", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	mapRasterRefDec (description="???", quantity="arcsec")
DoubleParameter	mapRasterRefRa (description="???", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	lWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineId (description="HSPOT: line ID", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")

StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
StringParameter	level (description="Product Level", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
<i>Columns</i>	
<i>table dataset</i>	(name="HPSHKS", description="Generated from PacketSequence \$Revision: 1.1 \$")
<i>Metadata</i>	
StringParameter	revision (description="PacketSequence Revision from which this data was generated.")
<i>Columns</i>	
<i>LongId</i>	Time (description="Time [microseconds]", quantity="microseconds")
<i>StringId</i>	DM_SEQ_ERR_NS (description="DM_SEQ_ERR_NS", quantity="none")
<i>StringId</i>	DM_CS1C_COMMUT (description="DM_CS1C_COMMUT", quantity="none")
<i>LongId</i>	DM_FW_SPEC_CTRL (description="DM_FW_SPEC_CTRL [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_BR_CM_4 (description="DM_DECB_BR_CM_4 [eng, V]", quantity="none")
<i>LongId</i>	DM_DBR_ERROR (description="DM_DBR_ERROR [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_BR_CM_3 (description="DM_DECB_BR_CM_3 [eng, V]", quantity="none")

<i>StringId</i>	DP_BUFFER_STAT (description="DP_BUFFER_STAT", quantity="none")
<i>DoubleId</i>	BOL_TEMP_TS (description="BOL_TEMP_TS [eng, K]", quantity="none")
<i>LongId</i>	DM_HKD_SPARE3 (description="DM_HKD_SPARE3 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_TS_2_2 (description="DM_DECR_TS_2_2 [eng, K]", quantity="none")
<i>StringId</i>	DM_DBR_LINK (description="DM_DBR_LINK", quantity="none")
<i>DoubleId</i>	DM_DECR_TS_2_1 (description="DM_DECR_TS_2_1 [eng, K]", quantity="none")
<i>StringId</i>	DM_BPE_ERR_NS (description="DM_BPE_ERR_NS", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_FPU (description="DP_EV_BOL_I_FPU", quantity="none")
<i>StringId</i>	DM_DRR_ERR_NS (description="DM_DRR_ERR_NS", quantity="none")
<i>DoubleId</i>	DM_SPU_VCC_CUR (description="DM_SPU_VCC_CUR [eng, A]", quantity="none")
<i>LongId</i>	DM_DPUS_SPARE4 (description="DM_DPUS_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DM_HKD_SPARE1 (description="DM_HKD_SPARE1 [raw]", quantity="none")
<i>StringId</i>	DM_CC_SYNCHRO (description="DM_CC_SYNCHRO", quantity="none")
<i>DoubleId</i>	DM_DECB_IGND_4 (description="DM_DECB_IGND_4 [eng, mA]", quantity="none")
<i>LongId</i>	DM_DET_SIM_PER (description="DM_DET_SIM_PER [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_IGND_3 (description="DM_DECB_IGND_3 [eng, mA]", quantity="none")
<i>StringId</i>	DM_BC_ERR_NS (description="DM_BC_ERR_NS", quantity="none")
<i>StringId</i>	DM_GC_POWER (description="DM_GC_POWER", quantity="none")
<i>DoubleId</i>	DM_DECR_IGND_2 (description="DM_DECR_IGND_2 [eng, mA]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_SP (description="BOL_TEMP_SP [eng, K]", quantity="none")
<i>StringId</i>	DP_SPUS_HK (description="DP_SPUS_HK", quantity="none")
<i>StringId</i>	DM_CC_POWER (description="DM_CC_POWER", quantity="none")
<i>DoubleId</i>	DM_DECB_TS_2_3 (description="DM_DECB_TS_2_3 [eng, K]", quantity="none")
<i>StringId</i>	DM_CR2_ST_TE (description="DM_CR2_ST_TE", quantity="none")
<i>StringId</i>	DM_HKCO_TASK_AL (description="DM_HKCO_TASK_AL", quantity="none")

<i>LongId</i>	HD_PACKET_TYPE (description="HD_PACKET_TYPE [raw]", quantity="none")
<i>LongId</i>	SPS_MEM_CNTS (description="SPS_MEM_CNTS [raw]", quantity="none")
<i>LongId</i>	DM_DECR_SR_RB_1 (description="DM_DECR_SR_RB_1 [raw]", quantity="none")
<i>LongId</i>	DM_CHOP_PID_ACC (description="DM_CHOP_PID_ACC [raw]", quantity="none")
<i>LongId</i>	DM_DECR_SR_RB_2 (description="DM_DECR_SR_RB_2 [raw]", quantity="none")
<i>StringId</i>	DM_BSPU_TR_MODE (description="DM_BSPU_TR_MODE", quantity="none")
<i>StringId</i>	DM_FPU_GR_TS_ST (description="DM_FPU_GR_TS_ST", quantity="none")
<i>StringId</i>	DM_BC_TASK_AL (description="DM_BC_TASK_AL", quantity="none")
<i>DoubleId</i>	DM_DECB_TS_2_4 (description="DM_DECB_TS_2_4 [eng, K]", quantity="none")
<i>DoubleId</i>	DM_DECR_AC_CUR (description="DM_DECR_AC_CUR [eng, mA]", quantity="none")
<i>LongId</i>	SPL_OBSID (description="SPL_OBSID [raw]", quantity="none")
<i>StringId</i>	DM_BC_LINK (description="DM_BC_LINK", quantity="none")
<i>LongId</i>	DM_BR_ERROR (description="DM_BR_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_CR1_NDS (description="DM_CR1_NDS", quantity="none")
<i>DoubleId</i>	DM_DECB_VSCP_3 (description="DM_DECB_VSCP_3 [eng, V]", quantity="none")
<i>LongId</i>	DM_DECR_RO_CO_2 (description="DM_DECR_RO_CO_2 [raw]", quantity="none")
<i>StringId</i>	DM_SW_ALIVE (description="DM_SW_ALIVE", quantity="none")
<i>StringId</i>	DM_SEQ_RUNNING (description="DM_SEQ_RUNNING", quantity="none")
<i>StringId</i>	DM_FWPC_POS_A (description="DM_FWPC_POS_A", quantity="none")
<i>DoubleId</i>	DM_DECB_VSCP_4 (description="DM_DECB_VSCP_4 [eng, V]", quantity="none")
<i>LongId</i>	DM_DECR_RO_CO_1 (description="DM_DECR_RO_CO_1 [raw]", quantity="none")
<i>StringId</i>	DM_FWPC_POS_B (description="DM_FWPC_POS_B", quantity="none")
<i>LongId</i>	DM_CC_SPARE4 (description="DM_CC_SPARE4 [raw]", quantity="none")
<i>DoubleId</i>	LAST_16BIT_TIME (description="LAST_16BIT_TIME [eng, s]", quantity="none")
<i>StringId</i>	DM_DRR_TASK_WR (description="DM_DRR_TASK_WR", quantity="none")
<i>StringId</i>	DM_DBR_TASK_AL (description="DM_DBR_TASK_AL", quantity="none")

<i>LongId</i>	DP_GEN_TM_LOST (description="DP_GEN_TM_LOST [raw]", quantity="none")
<i>StringId</i>	DM_FWPC_POWER (description="DM_FWPC_POWER", quantity="none")
<i>DoubleId</i>	DM_DECR_BR_CM_1 (description="DM_DECR_BR_CM_1 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_BR_CM_2 (description="DM_DECR_BR_CM_2 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_IGND_1 (description="DM_DECR_IGND_1 [eng, mA]", quantity="none")
<i>StringId</i>	DM_GC_DOWN (description="DM_GC_DOWN", quantity="none")
<i>DoubleId</i>	DM_DECR_VSCP_1 (description="DM_DECR_VSCP_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_DRR_ERROR (description="DM_DRR_ERROR [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_VDDD_4 (description="DM_DECB_VDDD_4 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_VSCP_2 (description="DM_DECR_VSCP_2 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECB_VDDD_3 (description="DM_DECB_VDDD_3 [eng, V]", quantity="none")
<i>LongId</i>	DM_FWPC_SPARE4 (description="DM_FWPC_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_RA_CO_3 (description="DM_DECB_RA_CO_3 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_RA_CO_4 (description="DM_DECB_RA_CO_4 [raw]", quantity="none")
<i>LongId</i>	DM_PLL_RES_HI (description="DM_PLL_RES_HI [raw]", quantity="none")
<i>LongId</i>	DM_BR_SPARE2 (description="DM_BR_SPARE2 [raw]", quantity="none")
<i>StringId</i>	DM_SEQ_OPTIONS (description="DM_SEQ_OPTIONS", quantity="none")
<i>LongId</i>	DP_COM_SPL_PACK (description="DP_COM_SPL_PACK [raw]", quantity="none")
<i>StringId</i>	DM_DBC_LINK (description="DM_DBC_LINK", quantity="none")
<i>DoubleId</i>	DM_DECB_V0BIAS3 (description="DM_DECB_V0BIAS3 [eng, V]", quantity="none")
<i>StringId</i>	DM_CR4_ST_SEL (description="DM_CR4_ST_SEL", quantity="none")
<i>StringId</i>	DM_CR4_ST_CRPOW (description="DM_CR4_ST_CRPOW", quantity="none")
<i>DoubleId</i>	DM_DECR_VDDD_2 (description="DM_DECR_VDDD_2 [eng, V]", quantity="none")
<i>StringId</i>	DM_CR1_ST_FL (description="DM_CR1_ST_FL", quantity="none")
<i>DoubleId</i>	DM_DECB_V0BIAS4 (description="DM_DECB_V0BIAS4 [eng, V]", quantity="none")

<i>DoubleId</i>	DM_DECR_VDDD_1 (description="DM_DECR_VDDD_1 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_V0V_2 (description="DM_DECR_V0V_2 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_V0V_1 (description="DM_DECR_V0V_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_DPUS_ERROR (description="DM_DPUS_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_HKD_TASK_WR (description="DM_HKD_TASK_WR", quantity="none")
<i>LongId</i>	DM_DECB_CTRL_PA (description="DM_DECB_CTRL_PA [raw]", quantity="none")
<i>LongId</i>	SPL_SUBVERSION (description="SPL_SUBVERSION [raw]", quantity="none")
<i>LongId</i>	DM_BOL_READ_CNT (description="DM_BOL_READ_CNT [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_FLASH_V (description="DM_DECR_FLASH_V [eng, V]", quantity="none")
<i>StringId</i>	DM_HKCO_ERR_NS (description="DM_HKCO_ERR_NS", quantity="none")
<i>LongId</i>	FIRST32BIT_TIME (description="FIRST32BIT_TIME [raw]", quantity="none")
<i>StringId</i>	DM_HKD_DIAGMODE (description="DM_HKD_DIAGMODE", quantity="none")
<i>StringId</i>	DP_1553_HANDLER (description="DP_1553_HANDLER", quantity="none")
<i>StringId</i>	DM_DRC_TASK_AL (description="DM_DRC_TASK_AL", quantity="none")
<i>LongId</i>	DM_SEQ_LOOP_ID4 (description="DM_SEQ_LOOP_ID4 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF12 (description="DM_LAST_ER_BF12 [raw]", quantity="none")
<i>StringId</i>	DM_FWPC_TASK_WR (description="DM_FWPC_TASK_WR", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF13 (description="DM_LAST_ER_BF13 [raw]", quantity="none")
<i>LongId</i>	DM_FWGRAT_HALLA (description="DM_FWGRAT_HALLA [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF14 (description="DM_LAST_ER_BF14 [raw]", quantity="none")
<i>LongId</i>	DM_FWGRAT_HALLB (description="DM_FWGRAT_HALLB [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF15 (description="DM_LAST_ER_BF15 [raw]", quantity="none")
<i>LongId</i>	DM_SEQ_LOOP_ID0 (description="DM_SEQ_LOOP_ID0 [raw]", quantity="none")
<i>LongId</i>	DM_SEQ_LOOP_ID1 (description="DM_SEQ_LOOP_ID1 [raw]", quantity="none")

<i>LongId</i>	SPL_SAMP_CORR (description="SPL_SAMP_CORR [raw]", quantity="none")
<i>LongId</i>	DM_SEQ_LOOP_ID2 (description="DM_SEQ_LOOP_ID2 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF10 (description="DM_LAST_ER_BF10 [raw]", quantity="none")
<i>StringId</i>	DM_CR4_ST_HE (description="DM_CR4_ST_HE", quantity="none")
<i>LongId</i>	DM_SEQ_LOOP_ID3 (description="DM_SEQ_LOOP_ID3 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF11 (description="DM_LAST_ER_BF11 [raw]", quantity="none")
<i>StringId</i>	DM_TS_2_ST_3 (description="DM_TS_2_ST_3", quantity="none")
<i>LongId</i>	DM_GRAT_PID_ACC (description="DM_GRAT_PID_ACC [raw]", quantity="none")
<i>StringId</i>	DM_TS_2_ST_4 (description="DM_TS_2_ST_4", quantity="none")
<i>StringId</i>	DM_CC_TASK_WR (description="DM_CC_TASK_WR", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF16 (description="DM_LAST_ER_BF16 [raw]", quantity="none")
<i>StringId</i>	DM_TS_2_ST_1 (description="DM_TS_2_ST_1", quantity="none")
<i>StringId</i>	DM_TS_2_ST_2 (description="DM_TS_2_ST_2", quantity="none")
<i>StringId</i>	DM_GC_PID (description="DM_GC_PID", quantity="none")
<i>StringId</i>	DM_CR1_ST_HE (description="DM_CR1_ST_HE", quantity="none")
<i>DoubleId</i>	DM_SPU_PS_TEMP (description="DM_SPU_PS_TEMP [eng, K]", quantity="none")
<i>LongId</i>	DP_COM_DMC (description="DP_COM_DMC [raw]", quantity="none")
<i>StringId</i>	DP_OBCP_RUN (description="DP_OBCP_RUN", quantity="none")
<i>StringId</i>	DP_IRQ3_TASK (description="DP_IRQ3_TASK", quantity="none")
<i>DoubleId</i>	DM_FPU_T2_TEMP (description="DM_FPU_T2_TEMP [eng, K]", quantity="none")
<i>DoubleId</i>	DM_DECB_VWELL_4 (description="DM_DECB_VWELL_4 [eng, V]", quantity="none")
<i>LongId</i>	SID (description="SID [raw]", quantity="none")
<i>LongId</i>	SPS_PIX (description="SPS_PIX [raw]", quantity="none")
<i>LongId</i>	DM_FWSC_SPARE4 (description="DM_FWSC_SPARE4 [raw]", quantity="none")
<i>StringId</i>	DM_TS_1_ST_4 (description="DM_TS_1_ST_4", quantity="none")
<i>StringId</i>	DM_BPE_TASK_AL (description="DM_BPE_TASK_AL", quantity="none")
<i>StringId</i>	DM_TS_1_ST_3 (description="DM_TS_1_ST_3", quantity="none")
<i>StringId</i>	DM_CR3_ST_SIM (description="DM_CR3_ST_SIM", quantity="none")
<i>StringId</i>	DM_TS_1_ST_2 (description="DM_TS_1_ST_2", quantity="none")

<i>StringId</i>	DM_FPU_CH_TS_ST (description="DM_FPU_CH_TS_ST", quantity="none")
<i>DoubleId</i>	DM_DECB_VWELL_3 (description="DM_DECB_VWELL_3 [eng, V]", quantity="none")
<i>StringId</i>	DM_TS_1_ST_1 (description="DM_TS_1_ST_1", quantity="none")
<i>StringId</i>	DM_DSIM_TIME (description="DM_DSIM_TIME", quantity="none")
<i>StringId</i>	DM_DBR_ERR_NS (description="DM_DBR_ERR_NS", quantity="none")
<i>StringId</i>	SPS_DMC_LINK (description="SPS_DMC_LINK", quantity="none")
<i>LongId</i>	DM_DET_SIM_STAT (description="DM_DET_SIM_STAT [raw]", quantity="none")
<i>LongId</i>	DP_COM_DMC_PACK (description="DP_COM_DMC_PACK [raw]", quantity="none")
<i>LongId</i>	DM_DECR_CTRL_PA (description="DM_DECR_CTRL_PA [raw]", quantity="none")
<i>StringId</i>	DM_CR4_ST_FL (description="DM_CR4_ST_FL", quantity="none")
<i>StringId</i>	DM_CR2_NDS (description="DM_CR2_NDS", quantity="none")
<i>DoubleId</i>	DM_DECR_TS_1_2 (description="DM_DECR_TS_1_2 [eng, K]", quantity="none")
<i>DoubleId</i>	DM_DECR_TS_1_1 (description="DM_DECR_TS_1_1 [eng, K]", quantity="none")
<i>LongId</i>	HD_APIID (description="HD_APIID [raw]", quantity="none")
<i>LongId</i>	DM_DSIM_SPARE7 (description="DM_DSIM_SPARE7 [raw]", quantity="none")
<i>StringId</i>	DP_STABLE_DEC (description="DP_STABLE_DEC", quantity="none")
<i>DoubleId</i>	DM_DECB_VSS_3 (description="DM_DECB_VSS_3 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECB_VSS_4 (description="DM_DECB_VSS_4 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_VWELL_2 (description="DM_DECR_VWELL_2 [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ERR_ID (description="DM_LAST_ERR_ID [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_VWELL_1 (description="DM_DECR_VWELL_1 [eng, V]", quantity="none")
<i>StringId</i>	DM_CR3_ST_CRPOW (description="DM_CR3_ST_CRPOW", quantity="none")
<i>LongId</i>	SPS_LLC_ERROR (description="SPS_LLC_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_RED_ENC_PAC (description="DM_RED_ENC_PAC [raw]", quantity="none")
<i>StringId</i>	DM_CS2C_DOWN (description="DM_CS2C_DOWN", quantity="none")
<i>StringId</i>	DP_SPL_LINK (description="DP_SPL_LINK", quantity="none")

<i>LongId</i>	DM_IRS_CNT (description="DM_IRS_CNT [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_TS_1_4 (description="DM_DECB_TS_1_4 [eng, K]", quantity="none")
<i>LongId</i>	DM_SW_SPARE5 (description="DM_SW_SPARE5 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_TS_1_3 (description="DM_DECB_TS_1_3 [eng, K]", quantity="none")
<i>LongId</i>	DP_COM_SPS_NACK (description="DP_COM_SPS_NACK [raw]", quantity="none")
<i>StringId</i>	DM_BR_TASK_WR (description="DM_BR_TASK_WR", quantity="none")
<i>StringId</i>	DM_DBR_SENDING (description="DM_DBR_SENDING", quantity="none")
<i>LongId</i>	DP_COM_SPUS (description="DP_COM_SPUS [raw]", quantity="none")
<i>StringId</i>	DM_CS1C_POWER (description="DM_CS1C_POWER", quantity="none")
<i>StringId</i>	DM_DPUR_TASK_WR (description="DM_DPUR_TASK_WR", quantity="none")
<i>LongId</i>	DP_COM_SPUL (description="DP_COM_SPUL [raw]", quantity="none")
<i>StringId</i>	DM_GC_SYNCHRO (description="DM_GC_SYNCHRO", quantity="none")
<i>StringId</i>	DM_SEQ_TASK_AL (description="DM_SEQ_TASK_AL", quantity="none")
<i>DoubleId</i>	BOL_TEMP_SP_SWT (description="BOL_TEMP_SP_SWT [eng, K]", quantity="none")
<i>LongId</i>	DM_SEQ_STATUS (description="DM_SEQ_STATUS [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_ISS_1 (description="DM_DECR_ISS_1 [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECR_ISS_2 (description="DM_DECR_ISS_2 [eng, mA]", quantity="none")
<i>LongId</i>	DM_FW_PHOT_CTRL (description="DM_FW_PHOT_CTRL [raw]", quantity="none")
<i>StringId</i>	DM_CC_PID (description="DM_CC_PID", quantity="none")
<i>StringId</i>	DM_GC_DEGRADE (description="DM_GC_DEGRADE", quantity="none")
<i>StringId</i>	DM_CS1C_DOWN (description="DM_CS1C_DOWN", quantity="none")
<i>StringId</i>	DP_COUNTER_SPS (description="DP_COUNTER_SPS", quantity="none")
<i>StringId</i>	DM_BR_TASK_AL (description="DM_BR_TASK_AL", quantity="none")
<i>LongId</i>	DM_GC_LL_SC (description="DM_GC_LL_SC [raw]", quantity="none")

<i>LongId</i>	DM_DPUR_SPARE4 (description="DM_DPUR_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DP_COM_REC_DPU (description="DP_COM_REC_DPU [raw]", quantity="none")
<i>StringId</i>	DM_DPUS_TASK_WR (description="DM_DPUS_TASK_WR", quantity="none")
<i>StringId</i>	DM_SEQ_IDLE (description="DM_SEQ_IDLE", quantity="none")
<i>LongId</i>	DM_FPU_T_SEN_ST (description="DM_FPU_T_SEN_ST [raw]", quantity="none")
<i>StringId</i>	DM_HKD_TASK_AL (description="DM_HKD_TASK_AL", quantity="none")
<i>LongId</i>	DM_BOL_CTRL_STA (description="DM_BOL_CTRL_STA [raw]", quantity="none")
<i>LongId</i>	DM_CR2_ST_SP1 (description="DM_CR2_ST_SP1 [raw]", quantity="none")
<i>LongId</i>	DM_CR2_ST_SP2 (description="DM_CR2_ST_SP2 [raw]", quantity="none")
<i>StringId</i>	DM_CR3_ST_POW (description="DM_CR3_ST_POW", quantity="none")
<i>StringId</i>	DM_CS2C_POWER (description="DM_CS2C_POWER", quantity="none")
<i>LongId</i>	DM_SEQ_POINTER (description="DM_SEQ_POINTER [raw]", quantity="none")
<i>LongId</i>	DM_DPU_SEN_STAT (description="DM_DPU_SEN_STAT [raw]", quantity="none")
<i>StringId</i>	DM_CR1_ST_POW (description="DM_CR1_ST_POW", quantity="none")
<i>LongId</i>	DM_CR4_ST_SP1 (description="DM_CR4_ST_SP1 [raw]", quantity="none")
<i>LongId</i>	DM_CR4_ST_SP2 (description="DM_CR4_ST_SP2 [raw]", quantity="none")
<i>LongId</i>	DM_SW_GLOBAL_ST (description="DM_SW_GLOBAL_ST [raw]", quantity="none")
<i>DoubleId</i>	DP_T (description="DP_T [eng, degC]", quantity="none")
<i>LongId</i>	DM_DECB_REC_PAC (description="DM_DECB_REC_PAC [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_6 (description="BOL_PWR_ANA_P_6 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_7 (description="BOL_PWR_ANA_P_7 [eng, V]", quantity="none")
<i>StringId</i>	DP_BURST_MODE (description="DP_BURST_MODE", quantity="none")
<i>StringId</i>	DM_FPU_S2_TS_ST (description="DM_FPU_S2_TS_ST", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_2 (description="BOL_PWR_ANA_P_2 [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF5 (description="DM_LAST_ER_BF5 [raw]", quantity="none")

<i>LongId</i>	SPS_SUBVERSION (description="SPS_SUBVERSION [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF6 (description="DM_LAST_ER_BF6 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_3 (description="BOL_PWR_ANA_P_3 [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF3 (description="DM_LAST_ER_BF3 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_4 (description="BOL_PWR_ANA_P_4 [eng, V]", quantity="none")
<i>StringId</i>	DM_CR3_ST_CUR (description="DM_CR3_ST_CUR", quantity="none")
<i>LongId</i>	SPL_PIX (description="SPL_PIX [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF4 (description="DM_LAST_ER_BF4 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_5 (description="BOL_PWR_ANA_P_5 [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF9 (description="DM_LAST_ER_BF9 [raw]", quantity="none")
<i>LongId</i>	DM_BOL_REC_STAT (description="DM_BOL_REC_STAT [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF7 (description="DM_LAST_ER_BF7 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_1 (description="BOL_PWR_ANA_P_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF8 (description="DM_LAST_ER_BF8 [raw]", quantity="none")
<i>StringId</i>	DM_DSIM_BOL_SIM (description="DM_DSIM_BOL_SIM", quantity="none")
<i>LongId</i>	SPL_MAINT_RAMPS (description="SPL_MAINT_RAMPS [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_ISS_3 (description="DM_DECB_ISS_3 [eng, mA]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF1 (description="DM_LAST_ER_BF1 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_ISS_4 (description="DM_DECB_ISS_4 [eng, mA]", quantity="none")
<i>StringId</i>	DP_EV_BOL_BIAS (description="DP_EV_BOL_BIAS", quantity="none")
<i>LongId</i>	DM_HK_DIAG_STAT (description="DM_HK_DIAG_STAT [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF2 (description="DM_LAST_ER_BF2 [raw]", quantity="none")
<i>StringId</i>	DM_CC_UP (description="DM_CC_UP", quantity="none")
<i>StringId</i>	DP_EVENT_DEC (description="DP_EVENT_DEC", quantity="none")
<i>LongId</i>	DM_DPUR_ERROR (description="DM_DPUR_ERROR [raw]", quantity="none")

<i>StringId</i>	DP_SPS_LINK (description="DP_SPS_LINK", quantity="none")
<i>LongId</i>	DM_FWPC_SPARE1A (description="DM_FWPC_SPARE1A [raw]", quantity="none")
<i>LongId</i>	DM_FWPC_SPARE1B (description="DM_FWPC_SPARE1B [raw]", quantity="none")
<i>StringId</i>	DM_CR3_NDS (description="DM_CR3_NDS", quantity="none")
<i>StringId</i>	DM_GC_COMMUT (description="DM_GC_COMMUT", quantity="none")
<i>LongId</i>	DM_GRAT_CUR_POS (description="DM_GRAT_CUR_POS [raw]", quantity="none")
<i>StringId</i>	DM_RPE_ERR_NS (description="DM_RPE_ERR_NS", quantity="none")
<i>LongId</i>	DM_OBSID (description="DM_OBSID [raw]", quantity="none")
<i>StringId</i>	DM_CR4_ST_TE (description="DM_CR4_ST_TE", quantity="none")
<i>DoubleId</i>	DM_DECR_HEAT_C (description="DM_DECR_HEAT_C [eng, mA]", quantity="none")
<i>LongId</i>	DM_ISR_SPARE1 (description="DM_ISR_SPARE1 [raw]", quantity="none")
<i>StringId</i>	DM_FWPC_POSC_A (description="DM_FWPC_POSC_A", quantity="none")
<i>StringId</i>	DM_FWPC_POSC_B (description="DM_FWPC_POSC_B", quantity="none")
<i>LongId</i>	DM_ISR_SPARE2 (description="DM_ISR_SPARE2 [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_T_WE (description="DP_EV_BOL_T_WE", quantity="none")
<i>StringId</i>	DM_DRC_TASK_WR (description="DM_DRC_TASK_WR", quantity="none")
<i>DoubleId</i>	DM_DECR_FLASH_C (description="DM_DECR_FLASH_C [eng, mA]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_5 (description="BOL_PWR_DIG_5 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_6 (description="BOL_PWR_DIG_6 [eng, V]", quantity="none")
<i>StringId</i>	DM_DPUS_LINK (description="DM_DPUS_LINK", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_7 (description="BOL_PWR_DIG_7 [eng, V]", quantity="none")
<i>LongId</i>	DM_BC_SPARE4 (description="DM_BC_SPARE4 [raw]", quantity="none")
<i>StringId</i>	DM_FWPC_ERR_NS (description="DM_FWPC_ERR_NS", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_1 (description="BOL_PWR_DIG_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_2 (description="BOL_PWR_DIG_2 [eng, V]", quantity="none")

<i>DoubleId</i>	BOL_PWR_DIG_3 (description="BOL_PWR_DIG_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_4 (description="BOL_PWR_DIG_4 [eng, V]", quantity="none")
<i>StringId</i>	DM_DBR_SIM_TIME (description="DM_DBR_SIM_TIME", quantity="none")
<i>StringId</i>	DM_CR3_ST_TE (description="DM_CR3_ST_TE", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_RO (description="DP_EV_BOL_I_RO", quantity="none")
<i>StringId</i>	DM_CS1C_TASK_AL (description="DM_CS1C_TASK_AL", quantity="none")
<i>DoubleId</i>	DM_DECR_HEAT_V (description="DM_DECR_HEAT_V [eng, V]", quantity="none")
<i>StringId</i>	DM_SW_COPY_OBS (description="DM_SW_COPY_OBS", quantity="none")
<i>LongId</i>	SPS_SAMP_CORR (description="SPS_SAMP_CORR [raw]", quantity="none")
<i>StringId</i>	DM_SW_ERR (description="DM_SW_ERR", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU_ST (description="BOL_TEMP_FPU_ST [eng, K]", quantity="none")
<i>StringId</i>	DM_CR1_ST_RA (description="DM_CR1_ST_RA", quantity="none")
<i>StringId</i>	DM_BR_SENDING (description="DM_BR_SENDING", quantity="none")
<i>StringId</i>	DM_DSIM_R_SIMUL (description="DM_DSIM_R_SIMUL", quantity="none")
<i>DoubleId</i>	DP_VOL_15P (description="DP_VOL_15P [eng, V]", quantity="none")
<i>StringId</i>	DM_FPU_CS_TS_ST (description="DM_FPU_CS_TS_ST", quantity="none")
<i>DoubleId</i>	DM_FW_SPEC_TEMP (description="DM_FW_SPEC_TEMP [eng, K]", quantity="none")
<i>DoubleId</i>	DP_VOL_15N (description="DP_VOL_15N [eng, V]", quantity="none")
<i>StringId</i>	DM_BR_LINK (description="DM_BR_LINK", quantity="none")
<i>StringId</i>	DM_HKCO_TASK_WR (description="DM_HKCO_TASK_WR", quantity="none")
<i>LongId</i>	SPS_CI (description="SPS_CI [raw]", quantity="none")
<i>StringId</i>	DM_CR4_ST_RA (description="DM_CR4_ST_RA", quantity="none")
<i>DoubleId</i>	DM_DECR_DCDCP15 (description="DM_DECR_DCDCP15 [eng, mA]", quantity="none")
<i>LongId</i>	DM_ISR_STAT (description="DM_ISR_STAT [raw]", quantity="none")
<i>LongId</i>	HD_LENGTH (description="HD_LENGTH [raw]", quantity="none")
<i>LongId</i>	DP_COM_SPS_PACK (description="DP_COM_SPS_PACK [raw]", quantity="none")

<i>LongId</i>	DP_1_8_REJECTED (description="DP_1_8_REJECTED [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_ZB_CM_1 (description="DM_DECR_ZB_CM_1 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_ZB_CM_2 (description="DM_DECR_ZB_CM_2 [eng, V]", quantity="none")
<i>LongId</i>	DM_FWSC_SPARE1A (description="DM_FWSC_SPARE1A [raw]", quantity="none")
<i>LongId</i>	DM_CS2C_ERROR (description="DM_CS2C_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_CR1_ST_CRPOW (description="DM_CR1_ST_CRPOW", quantity="none")
<i>LongId</i>	DM_SEQ_ERROR (description="DM_SEQ_ERROR [raw]", quantity="none")
<i>StringId</i>	DP_1355_LINK (description="DP_1355_LINK", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU1 (description="BOL_TEMP_FPU1 [eng, K]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU2 (description="BOL_TEMP_FPU2 [eng, K]", quantity="none")
<i>LongId</i>	DM_DECR_RA_CO_1 (description="DM_DECR_RA_CO_1 [raw]", quantity="none")
<i>LongId</i>	SPS_PAR_MONITOR (description="SPS_PAR_MONITOR [raw]", quantity="none")
<i>LongId</i>	DM_GRAT_PID_ERR (description="DM_GRAT_PID_ERR [raw]", quantity="none")
<i>LongId</i>	DP_1_2_REJECTED (description="DP_1_2_REJECTED [raw]", quantity="none")
<i>LongId</i>	DM_DECR_RA_CO_2 (description="DM_DECR_RA_CO_2 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_VGND_2 (description="DM_DECR_VGND_2 [eng, V]", quantity="none")
<i>StringId</i>	DM_BPE_TASK_WR (description="DM_BPE_TASK_WR", quantity="none")
<i>DoubleId</i>	DM_DECB_FLASH_V (description="DM_DECB_FLASH_V [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_VGND_1 (description="DM_DECR_VGND_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_FWPC_ERROR (description="DM_FWPC_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_CR2_ST_CUR (description="DM_CR2_ST_CUR", quantity="none")
<i>DoubleId</i>	DM_GRAT_OUTPUT (description="DM_GRAT_OUTPUT [eng, mA]", quantity="none")
<i>LongId</i>	DM_GRAT_CTRL_ST (description="DM_GRAT_CTRL_ST [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_4 (description="BOL_PWR_ANA_N_4 [eng, V]", quantity="none")

<i>DoubleId</i>	BOL_PWR_ANA_N_5 (description="BOL_PWR_ANA_N_5 [eng, V]", quantity="none")
<i>LongId</i>	DM_SW_ERROR (description="DM_SW_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_DECB_SR_RB_3 (description="DM_DECB_SR_RB_3 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_6 (description="BOL_PWR_ANA_N_6 [eng, V]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT10 (description="DM_CUSTOM_ENT10 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_7 (description="BOL_PWR_ANA_N_7 [eng, V]", quantity="none")
<i>StringId</i>	DM_CR3_ST_RA (description="DM_CR3_ST_RA", quantity="none")
<i>LongId</i>	DM_DECB_SR_RB_4 (description="DM_DECB_SR_RB_4 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_1 (description="BOL_PWR_ANA_N_1 [eng, V]", quantity="none")
<i>StringId</i>	SPL_DMC_ERROR (description="SPL_DMC_ERROR", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_2 (description="BOL_PWR_ANA_N_2 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_SPU_SWL_TEMP (description="DM_SPU_SWL_TEMP [eng, K]", quantity="none")
<i>LongId</i>	DM_HK_DIAG_PERI (description="DM_HK_DIAG_PERI [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_3 (description="BOL_PWR_ANA_N_3 [eng, V]", quantity="none")
<i>StringId</i>	DM_CR4_NDS (description="DM_CR4_NDS", quantity="none")
<i>LongId</i>	DM_FWSC_SPARE1B (description="DM_FWSC_SPARE1B [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_FLASH_C (description="DM_DECB_FLASH_C [eng, mA]", quantity="none")
<i>StringId</i>	DM_CR1_ST_TE (description="DM_CR1_ST_TE", quantity="none")
<i>DoubleId</i>	DP_VOL_25P (description="DP_VOL_25P [eng, V]", quantity="none")
<i>DoubleId</i>	SPL_CPUWORKLOAD (description="SPL_CPUWORKLOAD [eng, %]", quantity="none")
<i>StringId</i>	DP_SPUS_LINK (description="DP_SPUS_LINK", quantity="none")
<i>LongId</i>	DM_SEQ_SPARE2 (description="DM_SEQ_SPARE2 [raw]", quantity="none")
<i>DoubleId</i>	DP_VOL_5P (description="DP_VOL_5P [eng, V]", quantity="none")
<i>LongId</i>	DM_DPU_REC_PAC (description="DM_DPU_REC_PAC [raw]", quantity="none")
<i>StringId</i>	DP_COUNTER_SPL (description="DP_COUNTER_SPL", quantity="none")

<i>LongId</i>	DM_SEQ_SPARE1 (description="DM_SEQ_SPARE1 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_DCDC_P5 (description="DM_DECB_DCDC_P5 [eng, mA]", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_HEA (description="DP_EV_BOL_I_HEA", quantity="none")
<i>StringId</i>	DM_CR2_ST_RA (description="DM_CR2_ST_RA", quantity="none")
<i>DoubleId</i>	DM_DECR_IDDA_1 (description="DM_DECR_IDDA_1 [eng, mA]", quantity="none")
<i>StringId</i>	DP_COUNTER_PHOT (description="DP_COUNTER_PHOT", quantity="none")
<i>LongId</i>	DM_CR3_ST_SP2 (description="DM_CR3_ST_SP2 [raw]", quantity="none")
<i>StringId</i>	DM_DSIM_ERR_NS (description="DM_DSIM_ERR_NS", quantity="none")
<i>StringId</i>	DM_CR4_ST_SIM (description="DM_CR4_ST_SIM", quantity="none")
<i>StringId</i>	DM_CR2_ST_POW (description="DM_CR2_ST_POW", quantity="none")
<i>LongId</i>	DM_DECR_REC_PAC (description="DM_DECR_REC_PAC [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_IDDA_3 (description="DM_DECB_IDDA_3 [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECB_DCDCP15 (description="DM_DECB_DCDCP15 [eng, mA]", quantity="none")
<i>LongId</i>	DP_SPUS_LINK_DE (description="DP_SPUS_LINK_DE [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_IDDA_4 (description="DM_DECB_IDDA_4 [eng, mA]", quantity="none")
<i>StringId</i>	DM_CC_LOOP (description="DM_CC_LOOP", quantity="none")
<i>DoubleId</i>	DM_DECR_IDDA_2 (description="DM_DECR_IDDA_2 [eng, mA]", quantity="none")
<i>LongId</i>	SPS_RCX (description="SPS_RCX [raw]", quantity="none")
<i>LongId</i>	DM_BC_ERROR (description="DM_BC_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_DSIM_TASK_AL (description="DM_DSIM_TASK_AL", quantity="none")
<i>LongId</i>	DM_DECB_RO_CO_4 (description="DM_DECB_RO_CO_4 [raw]", quantity="none")
<i>LongId</i>	DM_CR3_ST_SP1 (description="DM_CR3_ST_SP1 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_RO_CO_3 (description="DM_DECB_RO_CO_3 [raw]", quantity="none")
<i>DoubleId</i>	DM_CAL_SRC_TEMP (description="DM_CAL_SRC_TEMP [eng, K]", quantity="none")
<i>DoubleId</i>	DM_CS1_OUTPUT (description="DM_CS1_OUTPUT [eng, V]", quantity="none")

<i>StringId</i>	DM_DRR_SENDING (description="DM_DRR_SENDING", quantity="none")
<i>StringId</i>	DM_DRC_LINK (description="DM_DRC_LINK", quantity="none")
<i>StringId</i>	DP_SPUL_CMD (description="DP_SPUL_CMD", quantity="none")
<i>LongId</i>	DM_BLUE_PAC_ENC (description="DM_BLUE_PAC_ENC [raw]", quantity="none")
<i>LongId</i>	SPL_RCX (description="SPL_RCX [raw]", quantity="none")
<i>LongId</i>	DM_HK_CTRL_STAT (description="DM_HK_CTRL_STAT [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_T_FPU (description="DP_EV_BOL_T_FPU", quantity="none")
<i>LongId</i>	DM_PM_DF_IND (description="DM_PM_DF_IND [raw]", quantity="none")
<i>LongId</i>	DM_HKCO_ERROR (description="DM_HKCO_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_DECR_DCDC_T2 (description="DM_DECR_DCDC_T2 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_VGND_3 (description="DM_DECB_VGND_3 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_DCDC_T1 (description="DM_DECR_DCDC_T1 [eng, K]", quantity="none")
<i>DoubleId</i>	DM_DECB_VGND_4 (description="DM_DECB_VGND_4 [eng, V]", quantity="none")
<i>StringId</i>	DM_CS2C_PID (description="DM_CS2C_PID", quantity="none")
<i>LongId</i>	DM_DPU_REC_STAT (description="DM_DPU_REC_STAT [raw]", quantity="none")
<i>StringId</i>	DP_OBCP_MANAGER (description="DP_OBCP_MANAGER", quantity="none")
<i>LongId</i>	HD_SPARE_3 (description="HD_SPARE_3 [raw]", quantity="none")
<i>StringId</i>	DP_DEC_LINK (description="DP_DEC_LINK", quantity="none")
<i>LongId</i>	SPL_LLC_ERROR (description="SPL_LLC_ERROR [raw]", quantity="none")
<i>LongId</i>	HD_VERSION_NUMB (description="HD_VERSION_NUMB [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_DCDCN15 (description="DM_DECR_DCDCN15 [eng, mA]", quantity="none")
<i>LongId</i>	DM_DBR_SPARE2 (description="DM_DBR_SPARE2 [raw]", quantity="none")
<i>LongId</i>	DM_GRAT_TARGET (description="DM_GRAT_TARGET [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_VSS_2 (description="DM_DECR_VSS_2 [eng, V]", quantity="none")
<i>LongId</i>	DM_HKCO_SPARE5 (description="DM_HKCO_SPARE5 [raw]", quantity="none")
<i>StringId</i>	DM_CR2_ST_CS (description="DM_CR2_ST_CS", quantity="none")
<i>LongId</i>	HD_SPARE_1 (description="HD_SPARE_1 [raw]", quantity="none")

<i>LongId</i>	DM_DECB_CL_RO_4 (description="DM_DECB_CL_RO_4 [raw]", quantity="none")
<i>LongId</i>	HD_SPARE_2 (description="HD_SPARE_2 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_CL_RO_3 (description="DM_DECB_CL_RO_3 [raw]", quantity="none")
<i>LongId</i>	SPS_VID (description="SPS_VID [raw]", quantity="none")
<i>StringId</i>	DM_FWSC_TASK_WR (description="DM_FWSC_TASK_WR", quantity="none")
<i>DoubleId</i>	DM_DECR_VSS_1 (description="DM_DECR_VSS_1 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_IDDD_2 (description="DM_DECR_IDDD_2 [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECR_IDDD_1 (description="DM_DECR_IDDD_1 [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECB_IDDD_3 (description="DM_DECB_IDDD_3 [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECB_REF_0V4 (description="DM_DECB_REF_0V4 [eng, V]", quantity="none")
<i>LongId</i>	DM_OBT_COUNT (description="DM_OBT_COUNT [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_REF_0V3 (description="DM_DECB_REF_0V3 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECB_IDDD_4 (description="DM_DECB_IDDD_4 [eng, mA]", quantity="none")
<i>StringId</i>	DM_FPU_FWP_TS_S (description="DM_FPU_FWP_TS_S", quantity="none")
<i>StringId</i>	DP_SPUS_CMD (description="DP_SPUS_CMD", quantity="none")
<i>StringId</i>	DM_GC_LL_LOCKED (description="DM_GC_LL_LOCKED", quantity="none")
<i>LongId</i>	DM_DSIM_SPARE1A (description="DM_DSIM_SPARE1A [raw]", quantity="none")
<i>LongId</i>	DM_CS2_CTRL_STA (description="DM_CS2_CTRL_STA [raw]", quantity="none")
<i>DoubleId</i>	DM_DSP_TEMP (description="DM_DSP_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_BR_SIM_TIME (description="DM_BR_SIM_TIME", quantity="none")
<i>StringId</i>	DM_GC_LL_MOVING (description="DM_GC_LL_MOVING", quantity="none")
<i>LongId</i>	DM_DSIM_SPARE1B (description="DM_DSIM_SPARE1B [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_DCDCP5 (description="DM_DECR_DCDCP5 [eng, mA]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_4 (description="BOL_TEMP_R_4 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_5 (description="BOL_TEMP_R_5 [eng, degC]", quantity="none")
<i>LongId</i>	DM_MIM_ST (description="DM_MIM_ST [raw]", quantity="none")

<i>LongId</i>	DM_DSIM_ERROR (description="DM_DSIM_ERROR [raw]", quantity="none")
<i>StringId</i>	SPS_DMC_ERROR (description="SPS_DMC_ERROR", quantity="none")
<i>LongId</i>	DM_GC_ERROR (description="DM_GC_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_CC_ERROR (description="DM_CC_ERROR [raw]", quantity="none")
<i>StringId</i>	DP_SPUL_LINK (description="DP_SPUL_LINK", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_1 (description="BOL_TEMP_R_1 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_2 (description="BOL_TEMP_R_2 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_3 (description="BOL_TEMP_R_3 [eng, degC]", quantity="none")
<i>StringId</i>	DM_CS2C_UP (description="DM_CS2C_UP", quantity="none")
<i>StringId</i>	DM_CR4_ST_CUR (description="DM_CR4_ST_CUR", quantity="none")
<i>StringId</i>	DM_DSIM_TASK_WR (description="DM_DSIM_TASK_WR", quantity="none")
<i>StringId</i>	DM_DPUR_TASK_AL (description="DM_DPUR_TASK_AL", quantity="none")
<i>LongId</i>	SPS_REAL (description="SPS_REAL [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_B_3 (description="BOL_TEMP_B_3 [eng, degC]", quantity="none")
<i>LongId</i>	DM_CHOP_SETPOIN (description="DM_CHOP_SETPOIN [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_B_2 (description="BOL_TEMP_B_2 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_B_1 (description="BOL_TEMP_B_1 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_DAQ (description="BOL_TEMP_DAQ [eng, degC]", quantity="none")
<i>StringId</i>	DP_TEST_MODE (description="DP_TEST_MODE", quantity="none")
<i>LongId</i>	DM_DECR_CL_RO_1 (description="DM_DECR_CL_RO_1 [raw]", quantity="none")
<i>LongId</i>	DM_CHOP_CUR_POS (description="DM_CHOP_CUR_POS [raw]", quantity="none")
<i>LongId</i>	DM_DECR_CL_RO_2 (description="DM_DECR_CL_RO_2 [raw]", quantity="none")
<i>LongId</i>	DM_CS2C_SPARE1B (description="DM_CS2C_SPARE1B [raw]", quantity="none")
<i>StringId</i>	DM_RPE_TASK_AL (description="DM_RPE_TASK_AL", quantity="none")
<i>DoubleId</i>	DM_FW_PHOT_TEMP (description="DM_FW_PHOT_TEMP [eng, K]", quantity="none")

<i>StringId</i>	DP_BLUE_SCIENCE (description="DP_BLUE_SCIENCE", quantity="none")
<i>StringId</i>	DP_UNIT (description="DP_UNIT", quantity="none")
<i>StringId</i>	DP_DMC_CMD (description="DP_DMC_CMD", quantity="none")
<i>LongId</i>	DM_DECB_DCDC_T4 (description="DM_DECB_DCDC_T4 [raw]", quantity="none")
<i>StringId</i>	DM_CC_COMMUT (description="DM_CC_COMMUT", quantity="none")
<i>LongId</i>	DM_TIME_2 (description="DM_TIME_2 [raw]", quantity="none")
<i>LongId</i>	DM_TIME_1 (description="DM_TIME_1 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_ZB_CM_4 (description="DM_DECB_ZB_CM_4 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECB_ZB_CM_3 (description="DM_DECB_ZB_CM_3 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECB_HEAT_V (description="DM_DECB_HEAT_V [eng, V]", quantity="none")
<i>LongId</i>	DM_CS1C_SPARE1 (description="DM_CS1C_SPARE1 [raw]", quantity="none")
<i>LongId</i>	DP_SPUS_LINK_PE (description="DP_SPUS_LINK_PE [raw]", quantity="none")
<i>LongId</i>	DM_CS1C_ERROR (description="DM_CS1C_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_CS1C_SPARE4 (description="DM_CS1C_SPARE4 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_DCDC_T3 (description="DM_DECB_DCDC_T3 [eng, K]", quantity="none")
<i>LongId</i>	DM_PM_SF_IND (description="DM_PM_SF_IND [raw]", quantity="none")
<i>LongId</i>	DM_BPE_ERROR (description="DM_BPE_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_GC_ERR_NS (description="DM_GC_ERR_NS", quantity="none")
<i>StringId</i>	DM_CS2C_TASK_WR (description="DM_CS2C_TASK_WR", quantity="none")
<i>StringId</i>	DM_CR4_ST_POW (description="DM_CR4_ST_POW", quantity="none")
<i>DoubleId</i>	BOL_TEMP_EV (description="BOL_TEMP_EV [eng, K]", quantity="none")
<i>DoubleId</i>	DM_DECB_DCDCN15 (description="DM_DECB_DCDCN15 [eng, mA]", quantity="none")
<i>StringId</i>	DM_CR2_ST_SIM (description="DM_CR2_ST_SIM", quantity="none")
<i>DoubleId</i>	DM_DECR_VCAN2_2 (description="DM_DECR_VCAN2_2 [eng, V]", quantity="none")
<i>StringId</i>	DM_DPUS_ERR_NS (description="DM_DPUS_ERR_NS", quantity="none")
<i>DoubleId</i>	DM_DECR_VCAN2_1 (description="DM_DECR_VCAN2_1 [eng, V]", quantity="none")

<i>LongId</i>	DM_CR1_ST_SP2 (description="DM_CR1_ST_SP2 [raw]", quantity="none")
<i>StringId</i>	DM_FWPH_CUR_POS (description="DM_FWPH_CUR_POS", quantity="none")
<i>LongId</i>	DM_CR1_ST_SP1 (description="DM_CR1_ST_SP1 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_V0V_4 (description="DM_DECB_V0V_4 [eng, V]", quantity="none")
<i>StringId</i>	DP_STABLE_SPS (description="DP_STABLE_SPS", quantity="none")
<i>StringId</i>	DM_CS2C_SYNCHRO (description="DM_CS2C_SYNCHRO", quantity="none")
<i>StringId</i>	DM_CR2_ST_FL (description="DM_CR2_ST_FL", quantity="none")
<i>StringId</i>	DM_FWSC_MOVING (description="DM_FWSC_MOVING", quantity="none")
<i>DoubleId</i>	DM_DECB_HEAT_C (description="DM_DECB_HEAT_C [eng, mA]", quantity="none")
<i>LongId</i>	DM_CHOP_MAX_DIT (description="DM_CHOP_MAX_DIT [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_V0V_3 (description="DM_DECB_V0V_3 [eng, V]", quantity="none")
<i>StringId</i>	DM_ISR_SYNC_RES (description="DM_ISR_SYNC_RES", quantity="none")
<i>LongId</i>	DM_DECB_CR_ST_3 (description="DM_DECB_CR_ST_3 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_CR_ST_4 (description="DM_DECB_CR_ST_4 [raw]", quantity="none")
<i>LongId</i>	SPL_PAR_MONITOR (description="SPL_PAR_MONITOR [raw]", quantity="none")
<i>LongId</i>	DM_RPE_ERROR (description="DM_RPE_ERROR [raw]", quantity="none")
<i>DoubleId</i>	DM_PSC_V2 (description="DM_PSC_V2 [eng, mA]", quantity="none")
<i>StringId</i>	DM_GC_UP (description="DM_GC_UP", quantity="none")
<i>DoubleId</i>	DM_PSC_V1 (description="DM_PSC_V1 [eng, A]", quantity="none")
<i>DoubleId</i>	DM_PSC_V4 (description="DM_PSC_V4 [eng, A]", quantity="none")
<i>StringId</i>	DP_EEPROM_PROT (description="DP_EEPROM_PROT", quantity="none")
<i>DoubleId</i>	DM_PSC_V3 (description="DM_PSC_V3 [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECB_VCAN2_3 (description="DM_DECB_VCAN2_3 [eng, V]", quantity="none")
<i>StringId</i>	DM_HKD_ERR_NS (description="DM_HKD_ERR_NS", quantity="none")

<i>StringId</i>	DM_FWPC_SEARCHB (description="DM_FWPC_SEARCHB", quantity="none")
<i>DoubleId</i>	DM_DECB_VCAN2_4 (description="DM_DECB_VCAN2_4 [eng, V]", quantity="none")
<i>StringId</i>	DM_FWPC_SEARCHA (description="DM_FWPC_SEARCHA", quantity="none")
<i>DoubleId</i>	DM_REF_VOLT_0V (description="DM_REF_VOLT_0V [eng, V]", quantity="none")
<i>StringId</i>	DM_FPU_S1_TS_ST (description="DM_FPU_S1_TS_ST", quantity="none")
<i>DoubleId</i>	DM_CPU_LOAD (description="DM_CPU_LOAD [eng, %]", quantity="none")
<i>LongId</i>	DM_BBID (description="DM_BBID [raw]", quantity="none")
<i>StringId</i>	DP_STABLE_SPL (description="DP_STABLE_SPL", quantity="none")
<i>StringId</i>	DM_DPUR_ERR_NS (description="DM_DPUR_ERR_NS", quantity="none")
<i>StringId</i>	DM_FPU_FWS_TS_S (description="DM_FPU_FWS_TS_S", quantity="none")
<i>StringId</i>	DM_GC_HOM_COMP (description="DM_GC_HOM_COMP", quantity="none")
<i>LongId</i>	DM_SEQ_LABEL (description="DM_SEQ_LABEL [raw]", quantity="none")
<i>DoubleId</i>	DM_FPU_T1_TEMP (description="DM_FPU_T1_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_CR1_ST_CUR (description="DM_CR1_ST_CUR", quantity="none")
<i>LongId</i>	SPL_VID (description="SPL_VID [raw]", quantity="none")
<i>LongId</i>	DM_BOL_CTRL_PAC (description="DM_BOL_CTRL_PAC [raw]", quantity="none")
<i>LongId</i>	DM_BLUE_ENC_PAC (description="DM_BLUE_ENC_PAC [raw]", quantity="none")
<i>LongId</i>	DP_SPUL_LINK_DE (description="DP_SPUL_LINK_DE [raw]", quantity="none")
<i>DoubleId</i>	DM_SPU_VP_CUR (description="DM_SPU_VP_CUR [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECR_REF_0V1 (description="DM_DECR_REF_0V1 [eng, V]", quantity="none")
<i>StringId</i>	DM_DSIM_B_SIMUL (description="DM_DSIM_B_SIMUL", quantity="none")
<i>DoubleId</i>	DM_DECR_REF_0V2 (description="DM_DECR_REF_0V2 [eng, V]", quantity="none")
<i>LongId</i>	DM_DRC_SPARE3 (description="DM_DRC_SPARE3 [raw]", quantity="none")
<i>LongId</i>	HD_SEG_FLAG (description="HD_SEG_FLAG [raw]", quantity="none")
<i>StringId</i>	DM_FWPC_MOVING (description="DM_FWPC_MOVING", quantity="none")

<i>StringId</i>	DM_CR2_ST_HE (description="DM_CR2_ST_HE", quantity="none")
<i>LongId</i>	DM_BOL_STATUS (description="DM_BOL_STATUS [raw]", quantity="none")
<i>StringId</i>	DM_CS1C_TASK_WR (description="DM_CS1C_TASK_WR", quantity="none")
<i>StringId</i>	DM_CS1C_SYNCHRO (description="DM_CS1C_SYNCHRO", quantity="none")
<i>LongId</i>	DM_B_SPEC_READ (description="DM_B_SPEC_READ [raw]", quantity="none")
<i>StringId</i>	DP_EV_DEC_SPC (description="DP_EV_DEC_SPC", quantity="none")
<i>DoubleId</i>	DM_SPU_VCC_VOL (description="DM_SPU_VCC_VOL [eng, V]", quantity="none")
<i>DoubleId</i>	DM_CHOPPER_TEMP (description="DM_CHOPPER_TEMP [eng, K]", quantity="none")
<i>StringId</i>	SPL_DMC_LINK (description="SPL_DMC_LINK", quantity="none")
<i>LongId</i>	DM_BPE_SPARE4 (description="DM_BPE_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DP_DEC_LINK_PE (description="DP_DEC_LINK_PE [raw]", quantity="none")
<i>LongId</i>	DM_DECB_RO_RA_4 (description="DM_DECB_RO_RA_4 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_RO_RA_3 (description="DM_DECB_RO_RA_3 [raw]", quantity="none")
<i>LongId</i>	DP_TC_LOST (description="DP_TC_LOST [raw]", quantity="none")
<i>StringId</i>	DP_RED_SCIENCE (description="DP_RED_SCIENCE", quantity="none")
<i>DoubleId</i>	SPS_CPUWORKLOAD (description="SPS_CPUWORKLOAD [eng, %]", quantity="none")
<i>StringId</i>	DM_DBC_TASK_WR (description="DM_DBC_TASK_WR", quantity="none")
<i>StringId</i>	DM_GC_TASK_WR (description="DM_GC_TASK_WR", quantity="none")
<i>LongId</i>	HD_SRC_SEQ_CTN (description="HD_SRC_SEQ_CTN [raw]", quantity="none")
<i>StringId</i>	DM_CS2C_LOOP (description="DM_CS2C_LOOP", quantity="none")
<i>StringId</i>	DM_CR3_ST_HE (description="DM_CR3_ST_HE", quantity="none")
<i>StringId</i>	DM_CS1C_UP (description="DM_CS1C_UP", quantity="none")
<i>StringId</i>	DM_CS1C_LOOP (description="DM_CS1C_LOOP", quantity="none")
<i>StringId</i>	DM_RPE_LINK (description="DM_RPE_LINK", quantity="none")
<i>LongId</i>	DM_DBC_SPARE3 (description="DM_DBC_SPARE3 [raw]", quantity="none")

<i>DoubleId</i>	DM_CS2_OUTPUT (description="DM_CS2_OUTPUT [eng, V]", quantity="none")
<i>LongId</i>	DM_RPE_SPARE4 (description="DM_RPE_SPARE4 [raw]", quantity="none")
<i>StringId</i>	DM_RPE_TASK_WR (description="DM_RPE_TASK_WR", quantity="none")
<i>StringId</i>	DP_WHICH_OBCP (description="DP_WHICH_OBCP", quantity="none")
<i>StringId</i>	DM_CS1C_PID (description="DM_CS1C_PID", quantity="none")
<i>StringId</i>	DP_1553CHANNEL (description="DP_1553CHANNEL", quantity="none")
<i>LongId</i>	DM_CC_SPARE1B (description="DM_CC_SPARE1B [raw]", quantity="none")
<i>LongId</i>	DM_CC_SPARE1A (description="DM_CC_SPARE1A [raw]", quantity="none")
<i>LongId</i>	DM_DECB_CTRL_ST (description="DM_DECB_CTRL_ST [raw]", quantity="none")
<i>StringId</i>	DM_DBC_POWER (description="DM_DBC_POWER", quantity="none")
<i>LongId</i>	DP_COM_DMC_NACK (description="DP_COM_DMC_NACK [raw]", quantity="none")
<i>StringId</i>	DM_DRC_POWER (description="DM_DRC_POWER", quantity="none")
<i>LongId</i>	DP_SW_SUBVERS_ID (description="DP_SW_SUBVERS_ID [raw]", quantity="none")
<i>StringId</i>	DM_BPE_LINK (description="DM_BPE_LINK", quantity="none")
<i>StringId</i>	DM_FWSC_POWER (description="DM_FWSC_POWER", quantity="none")
<i>StringId</i>	DM_DBC_TASK_AL (description="DM_DBC_TASK_AL", quantity="none")
<i>StringId</i>	DM_GC_LL_UNLOCK (description="DM_GC_LL_UNLOCK", quantity="none")
<i>StringId</i>	DM_CR3_ST_FL (description="DM_CR3_ST_FL", quantity="none")
<i>LongId</i>	DM_R_SPEC_READ (description="DM_R_SPEC_READ [raw]", quantity="none")
<i>LongId</i>	DM_DM_SF_IND (description="DM_DM_SF_IND [raw]", quantity="none")
<i>LongId</i>	DM_RED_PAC_ENC (description="DM_RED_PAC_ENC [raw]", quantity="none")
<i>LongId</i>	DM_CS2C_SPARE4 (description="DM_CS2C_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DM_CS2C_SPARE1 (description="DM_CS2C_SPARE1 [raw]", quantity="none")
<i>LongId</i>	DM_CS1C_SPARE1B (description="DM_CS1C_SPARE1B [raw]", quantity="none")
<i>LongId</i>	DM_DECB_REC_STA (description="DM_DECB_REC_STA [raw]", quantity="none")

<i>StringId</i>	DM_DRC_ERR_NS (description="DM_DRC_ERR_NS", quantity="none")
<i>DoubleId</i>	DM_REF_VOLT_5V (description="DM_REF_VOLT_5V [eng, V]", quantity="none")
<i>StringId</i>	DM_CR3_ST_SEL (description="DM_CR3_ST_SEL", quantity="none")
<i>StringId</i>	DP_CONTROLLER (description="DP_CONTROLLER", quantity="none")
<i>LongId</i>	DM_CHOP_CTRL_ST (description="DM_CHOP_CTRL_ST [raw]", quantity="none")
<i>StringId</i>	DM_CR1_ST_SEL (description="DM_CR1_ST_SEL", quantity="none")
<i>LongId</i>	DP_COM_SPL_NACK (description="DP_COM_SPL_NACK [raw]", quantity="none")
<i>LongId</i>	SPL_CI (description="SPL_CI [raw]", quantity="none")
<i>StringId</i>	DM_RSPU_TR_MODE (description="DM_RSPU_TR_MODE", quantity="none")
<i>LongId</i>	HD_SOURCE_TYPE (description="HD_SOURCE_TYPE [raw]", quantity="none")
<i>LongId</i>	DM_HKD_ERROR (description="DM_HKD_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_SEQ_WAIT_IND (description="DM_SEQ_WAIT_IND [raw]", quantity="none")
<i>StringId</i>	DM_BR_ERR_NS (description="DM_BR_ERR_NS", quantity="none")
<i>DoubleId</i>	BOL_TEMP_PSU_2 (description="BOL_TEMP_PSU_2 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_PSU_1 (description="BOL_TEMP_PSU_1 [eng, degC]", quantity="none")
<i>DoubleId</i>	DM_CS1_RES_VAL (description="DM_CS1_RES_VAL [eng, Ohm]", quantity="none")
<i>LongId</i>	DM_FWSC_ERROR (description="DM_FWSC_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_CS2C_COMMUT (description="DM_CS2C_COMMUT", quantity="none")
<i>LongId</i>	DP_SPUL_LINK_PE (description="DP_SPUL_LINK_PE [raw]", quantity="none")
<i>LongId</i>	DM_DPU_SEND_PAC (description="DM_DPU_SEND_PAC [raw]", quantity="none")
<i>StringId</i>	DP_DMC_LINK (description="DP_DMC_LINK", quantity="none")
<i>LongId</i>	DM_VID (description="DM_VID [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_V_PWR (description="DP_EV_BOL_V_PWR", quantity="none")
<i>LongId</i>	SPL_REAL (description="SPL_REAL [raw]", quantity="none")
<i>LongId</i>	DM_GRAT_SETPOIN (description="DM_GRAT_SETPOIN [raw]", quantity="none")
<i>LongId</i>	DM_DECR_TS_ST_1 (description="DM_DECR_TS_ST_1 [raw]", quantity="none")

<i>LongId</i>	DM_DECR_TS_ST_2 (description="DM_DECR_TS_ST_2 [raw]", quantity="none")
<i>StringId</i>	DM_CS1C_ERR_NS (description="DM_CS1C_ERR_NS", quantity="none")
<i>StringId</i>	DM_GC_HOM_PROG (description="DM_GC_HOM_PROG", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_SP2 (description="DP_EV_BOL_I_SP2", quantity="none")
<i>LongId</i>	DM_CHOP_PID_ERR (description="DM_CHOP_PID_ERR [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_SP1 (description="DP_EV_BOL_I_SP1", quantity="none")
<i>StringId</i>	DP_COUNTER_DEC (description="DP_COUNTER_DEC", quantity="none")
<i>LongId</i>	DP_STATUS (description="DP_STATUS [raw]", quantity="none")
<i>LongId</i>	SPL_INTEG_RAMPS (description="SPL_INTEG_RAMPS [raw]", quantity="none")
<i>DoubleId</i>	DM_CS1_TARGET (description="DM_CS1_TARGET [eng, Ohm]", quantity="none")
<i>LongId</i>	DP_COM_REJ_DPU (description="DP_COM_REJ_DPU [raw]", quantity="none")
<i>LongId</i>	DM_DECR_RO_RA_1 (description="DM_DECR_RO_RA_1 [raw]", quantity="none")
<i>LongId</i>	DM_DECR_RO_RA_2 (description="DM_DECR_RO_RA_2 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_VCAN1_4 (description="DM_DECB_VCAN1_4 [eng, V]", quantity="none")
<i>LongId</i>	DM_DM_DF_IND (description="DM_DM_DF_IND [raw]", quantity="none")
<i>StringId</i>	DP_HK_MONITOR (description="DP_HK_MONITOR", quantity="none")
<i>DoubleId</i>	DM_DECB_VCAN1_3 (description="DM_DECB_VCAN1_3 [eng, V]", quantity="none")
<i>StringId</i>	DM_CC_ERR_NS (description="DM_CC_ERR_NS", quantity="none")
<i>StringId</i>	DM_CR4_ST_CS (description="DM_CR4_ST_CS", quantity="none")
<i>LongId</i>	SPS_INTEG_RAMPS (description="SPS_INTEG_RAMPS [raw]", quantity="none")
<i>LongId</i>	SPS_MAINT_RAMPS (description="SPS_MAINT_RAMPS [raw]", quantity="none")
<i>LongId</i>	DM_DECR_REC_STA (description="DM_DECR_REC_STA [raw]", quantity="none")
<i>StringId</i>	DM_DBC_ERR_NS (description="DM_DBC_ERR_NS", quantity="none")
<i>DoubleId</i>	DM_SPU_PSU_P15V (description="DM_SPU_PSU_P15V [eng, V]", quantity="none")

<i>LongId</i>	DM_CC_SPARE1C (description="DM_CC_SPARE1C [raw]", quantity="none")
<i>DoubleId</i>	DM_SPU_LWL_TEMP (description="DM_SPU_LWL_TEMP [eng, K]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_5 (description="DM_CUSTOM_ENT_5 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_4 (description="DM_CUSTOM_ENT_4 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_7 (description="DM_CUSTOM_ENT_7 [raw]", quantity="none")
<i>LongId</i>	DP_DEC_LINK_DE (description="DP_DEC_LINK_DE [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_6 (description="DM_CUSTOM_ENT_6 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_9 (description="DM_CUSTOM_ENT_9 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_8 (description="DM_CUSTOM_ENT_8 [raw]", quantity="none")
<i>StringId</i>	DP_HK_CHK (description="DP_HK_CHK", quantity="none")
<i>LongId</i>	DM_DECR_CTRL_ST (description="DM_DECR_CTRL_ST [raw]", quantity="none")
<i>LongId</i>	HD_DATA_FLAG (description="HD_DATA_FLAG [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_1 (description="DM_CUSTOM_ENT_1 [raw]", quantity="none")
<i>StringId</i>	DM_FWSC_SEARCHB (description="DM_FWSC_SEARCHB", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_3 (description="DM_CUSTOM_ENT_3 [raw]", quantity="none")
<i>StringId</i>	DM_FWSC_SEARCHA (description="DM_FWSC_SEARCHA", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_2 (description="DM_CUSTOM_ENT_2 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_TS_ST_4 (description="DM_DECB_TS_ST_4 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_TS_ST_3 (description="DM_DECB_TS_ST_3 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_VBI_R_2 (description="DM_DECR_VBI_R_2 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_VBI_R_1 (description="DM_DECR_VBI_R_1 [eng, V]", quantity="none")
<i>StringId</i>	DM_CR2_ST_CRPOW (description="DM_CR2_ST_CRPOW", quantity="none")
<i>StringId</i>	DM_CS2C_ERR_NS (description="DM_CS2C_ERR_NS", quantity="none")
<i>StringId</i>	DM_CR3_ST_CS (description="DM_CR3_ST_CS", quantity="none")

<i>LongId</i>	DM_CHOP_TARGET (description="DM_CHOP_TARGET [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_V0BIAS1 (description="DM_DECR_V0BIAS1 [eng, V]", quantity="none")
<i>StringId</i>	DM_SEQ_TASK_WR (description="DM_SEQ_TASK_WR", quantity="none")
<i>DoubleId</i>	DM_DECR_V0BIAS2 (description="DM_DECR_V0BIAS2 [eng, V]", quantity="none")
<i>StringId</i>	SPS_SATUR_FLAG (description="SPS_SATUR_FLAG", quantity="none")
<i>StringId</i>	DM_FWSP_CUR_POS (description="DM_FWSP_CUR_POS", quantity="none")
<i>StringId</i>	DP_EVENT_SPU (description="DP_EVENT_SPU", quantity="none")
<i>StringId</i>	DM_DPUS_TASK_AL (description="DM_DPUS_TASK_AL", quantity="none")
<i>LongId</i>	DM_CS1_CTRL_STA (description="DM_CS1_CTRL_STA [raw]", quantity="none")
<i>StringId</i>	DM_DPUR_LINK (description="DM_DPUR_LINK", quantity="none")
<i>DoubleId</i>	DM_CS2_RES_VAL (description="DM_CS2_RES_VAL [eng, Ohm]", quantity="none")
<i>StringId</i>	DM_DRR_TASK_AL (description="DM_DRR_TASK_AL", quantity="none")
<i>StringId</i>	DM_GC_LS (description="DM_GC_LS", quantity="none")
<i>StringId</i>	DM_CS2C_TASK_AL (description="DM_CS2C_TASK_AL", quantity="none")
<i>DoubleId</i>	DP_WORK_LOAD (description="DP_WORK_LOAD [eng, %]", quantity="none")
<i>LongId</i>	DP_HK_LOST (description="DP_HK_LOST [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_VDDA_4 (description="DM_DECB_VDDA_4 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_GRATING_TEMP (description="DM_GRATING_TEMP [eng, K]", quantity="none")
<i>DoubleId</i>	DM_DECB_VDDA_3 (description="DM_DECB_VDDA_3 [eng, V]", quantity="none")
<i>LongId</i>	DM_DRR_SPARE2 (description="DM_DRR_SPARE2 [raw]", quantity="none")
<i>LongId</i>	DM_DRC_ERROR (description="DM_DRC_ERROR [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_VDDA_1 (description="DM_DECR_VDDA_1 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_VDDA_2 (description="DM_DECR_VDDA_2 [eng, V]", quantity="none")
<i>StringId</i>	DM_FWSC_POSC_B (description="DM_FWSC_POSC_B", quantity="none")

<i>StringId</i>	DM_FWSC_POSC_A (description="DM_FWSC_POSC_A", quantity="none")
<i>DoubleId</i>	DM_DECR_VCAN1_2 (description="DM_DECR_VCAN1_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_EV_SWT (description="BOL_TEMP_EV_SWT [eng, K]", quantity="none")
<i>DoubleId</i>	DM_DECR_VCAN1_1 (description="DM_DECR_VCAN1_1 [eng, V]", quantity="none")
<i>LongId</i>	HD_PCKT_SUBTYPE (description="HD_PCKT_SUBTYPE [raw]", quantity="none")
<i>StringId</i>	DM_CR1_ST_SIM (description="DM_CR1_ST_SIM", quantity="none")
<i>DoubleId</i>	DM_DECB_AC_CUR (description="DM_DECB_AC_CUR [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECB_VBI_R_4 (description="DM_DECB_VBI_R_4 [eng, V]", quantity="none")
<i>StringId</i>	SPL_SATUR_FLAG (description="SPL_SATUR_FLAG", quantity="none")
<i>DoubleId</i>	DM_DECB_VBI_R_3 (description="DM_DECB_VBI_R_3 [eng, V]", quantity="none")
<i>LongId</i>	DM_DECR_CR_ST_2 (description="DM_DECR_CR_ST_2 [raw]", quantity="none")
<i>LongId</i>	DM_DBC_ERROR (description="DM_DBC_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_DECR_CR_ST_1 (description="DM_DECR_CR_ST_1 [raw]", quantity="none")
<i>StringId</i>	DP_AF_24_SPARE (description="DP_AF_24_SPARE", quantity="none")
<i>DoubleId</i>	DM_DECR_VDDR_1 (description="DM_DECR_VDDR_1 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_VDDR_2 (description="DM_DECR_VDDR_2 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DCDC_TEMP (description="DM_DCDC_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DP_1355_HANDLER (description="DP_1355_HANDLER", quantity="none")
<i>StringId</i>	DM_DRR_SIM_TIME (description="DM_DRR_SIM_TIME", quantity="none")
<i>StringId</i>	DM_CR1_ST_CS (description="DM_CR1_ST_CS", quantity="none")
<i>LongId</i>	HD_PUS_VERSION (description="HD_PUS_VERSION [raw]", quantity="none")
<i>LongId</i>	DP_SPARE (description="DP_SPARE [raw]", quantity="none")
<i>StringId</i>	DM_FWSC_POS_B (description="DM_FWSC_POS_B", quantity="none")
<i>LongId</i>	DP_SW_VERS_ID (description="DP_SW_VERS_ID [raw]", quantity="none")

<i>StringId</i>	DM_FWSC_ERR_NS (description="DM_FWSC_ERR_NS", quantity="none")
<i>StringId</i>	DM_FWSC_POS_A (description="DM_FWSC_POS_A", quantity="none")
<i>StringId</i>	DP_SPUL_HK (description="DP_SPUL_HK", quantity="none")
<i>LongId</i>	DM_BOL_REC_PAC (description="DM_BOL_REC_PAC [raw]", quantity="none")
<i>StringId</i>	DP_COUNTER_SPEC (description="DP_COUNTER_SPEC", quantity="none")
<i>LongId</i>	DP_EVENT_LOST (description="DP_EVENT_LOST [raw]", quantity="none")
<i>LongId</i>	SPS_OBSID (description="SPS_OBSID [raw]", quantity="none")
<i>DoubleId</i>	DM_CS2_TARGET (description="DM_CS2_TARGET [eng, Ohm]", quantity="none")
<i>StringId</i>	DM_DRR_LINK (description="DM_DRR_LINK", quantity="none")
<i>StringId</i>	DM_DBR_TASK_WR (description="DM_DBR_TASK_WR", quantity="none")
<i>StringId</i>	DP_EVENT_DPU (description="DP_EVENT_DPU", quantity="none")
<i>StringId</i>	DM_BC_TASK_WR (description="DM_BC_TASK_WR", quantity="none")
<i>StringId</i>	DP_INIT (description="DP_INIT", quantity="none")
<i>LongId</i>	DM_PLL_RES_LO (description="DM_PLL_RES_LO [raw]", quantity="none")
<i>LongId</i>	SPL_MEM_CNTRS (description="SPL_MEM_CNTRS [raw]", quantity="none")
<i>LongId</i>	DP_AF_STATUS (description="DP_AF_STATUS [raw]", quantity="none")
<i>StringId</i>	DM_CC_DOWN (description="DM_CC_DOWN", quantity="none")
<i>DoubleId</i>	DM_CHOP_OUTPUT (description="DM_CHOP_OUTPUT [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECB_VDDR_4 (description="DM_DECB_VDDR_4 [eng, V]", quantity="none")
<i>StringId</i>	DP_TM_RATE (description="DP_TM_RATE", quantity="none")
<i>DoubleId</i>	DM_DECB_VDDR_3 (description="DM_DECB_VDDR_3 [eng, V]", quantity="none")
<i>StringId</i>	DM_CR2_ST_SEL (description="DM_CR2_ST_SEL", quantity="none")
<i>StringId</i>	DP_DMC_HK (description="DP_DMC_HK", quantity="none")

3.1.9. PACS Product Level 0 - Raw Data Spectrometer blue

<i>product</i> (type="HPSRAWBS", description="Raw Data Spectrometer blue")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")

StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
StringParameter	camName (description="Name of the Camera")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
BooleanParameter	Initialized (description="null")
LongParameter	Obsid (description="null")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product Level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")

StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	mapRasterRefOffset (description="???", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")

DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	mapRasterRefDec (description="???", quantity="arcsec")
DoubleParameter	mapRasterRefRa (description="???", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	lWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineId (description="HSPOT: line ID", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")

DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")		
Columns			
table dataset	(name="Signal", description="Table for science data.")		
Metadata			
Columns			
	Int1d	detnum (description="null", quantity="none")	
	Int1d	row (description="null", quantity="none")	
	Int1d	column (description="null", quantity="none")	
	Int1d	reset (description="null", quantity="none")	
	Double2d	readouts (description="null", quantity="none")	

3.1.10. PACS Product Level 0 - Raw Data Spectrometer red

<i>product (type="HPSRAWRS", description="Raw Data Spectrometer red")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
StringParameter	camName (description="Name of the Camera")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
BooleanParameter	Initialized (description="null")
LongParameter	Obsid (description="null")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")

LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product Level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")

LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	mapRasterRefOffset (description="???", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	mapRasterRefDec (description="???", quantity="arcsec")
DoubleParameter	mapRasterRefRa (description="???", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	lWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineId (description="HSPOT: line ID", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")

StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
<i>Columns</i>	
<i>table dataset</i>	(name="Signal", description="Table for science data.")
<i>Metadata</i>	
<i>Columns</i>	
<i>Int1d</i>	detnum (description="null", quantity="none")
<i>Int1d</i>	row (description="null", quantity="none")
<i>Int1d</i>	column (description="null", quantity="none")
<i>Int1d</i>	reset (description="null", quantity="none")
<i>Double2d</i>	readouts (description="null", quantity="none")

3.1.11. PACS Product Level 0.5 - Spectroscopy raw DecMec status blue product

<i>product (type="HPSDMCBS", description="Spectroscopy raw DecMec status blue product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")

StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")

StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	mapRasterRefOffset (description="???", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	mapRasterRefDec (description="???", quantity="arcsec")
DoubleParameter	mapRasterRefRa (description="???", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")

StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")

StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="micrometer")
LongParameter	repetition (description="SLICE_INFO: repetition", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
LongParameter	sliceNumber (description="Slice number", quantity="micrometer")
<i>Columns</i>	
<i>table dataset</i>	(name="DmcHeader", description="Status")
<i>Metadata</i>	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
LongParameter	DIM2 (description="Number of measures per status parameter")
<i>Columns</i>	
<i>Int1d</i>	RESETINDEX (description="Indicates the reset index of the status parameters", quantity="none")
<i>Int1d</i>	OBSID (description="Identifier of the observation", quantity="none")
<i>Int1d</i>	BBID (description="Building block type", quantity="none")
<i>Int2d</i>	LBL (description="Label", quantity="none")
<i>Int2d</i>	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
<i>Int2d</i>	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
<i>Long2d</i>	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
<i>Int2d</i>	VLD (description="Validity flag set by DecMec", quantity="none")
<i>Int2d</i>	CPR (description="Chopper position", quantity="none")
<i>Int2d</i>	WPR (description="Filter wheel Position", quantity="none")
<i>Int2d</i>	GPR (description="Grating Position", quantity="none")
<i>Int2d</i>	CRCRMP (description="Readout counter within an integration ramp", quantity="none")
<i>Int2d</i>	RRR (description="Readouts in Ramp", quantity="none")

				<i>Int2d</i>	CRDC (description="Current Readout counter since last time reset", quantity="none")
				<i>Int2d</i>	CRECR (description="CRE status word", quantity="none")

3.1.12. PACS Product Level 0.5 - Spectroscopy raw DecMec status blue product

<i>product (type="HPSDMCBS", description="Spectroscopy raw DecMec status blue product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")

DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	mapRasterRefOffset (description="???", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	mapRasterRefDec (description="???", quantity="arcsec")
DoubleParameter	mapRasterRefRa (description="???", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")

DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")

StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
LongParameter	sliceNumber (description="Slice number", quantity="micrometer")
<i>Columns</i>	
<i>table dataset</i>	(name="DmcHeader", description="Status")
<i>Metadata</i>	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
LongParameter	DIM2 (description="Number of measures per status parameter")
<i>Columns</i>	
<i>IntId</i>	RESETINDEX (description="Indicates the reset index of the status parameters", quantity="none")
<i>IntId</i>	OBSID (description="Identifier of the observation", quantity="none")
<i>IntId</i>	BBID (description="Building block type", quantity="none")

<i>Int2d</i>	LBL (description="Label", quantity="none")
<i>Int2d</i>	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
<i>Int2d</i>	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
<i>Long2d</i>	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
<i>Int2d</i>	VLD (description="Validity flag set by DecMec", quantity="none")
<i>Int2d</i>	CPR (description="Chopper position", quantity="none")
<i>Int2d</i>	WPR (description="Filter wheel Position", quantity="none")
<i>Int2d</i>	GPR (description="Grating Position", quantity="none")
<i>Int2d</i>	CRCRMP (description="Readout counter within an integration ramp", quantity="none")
<i>Int2d</i>	RRR (description="Readouts in Ramp", quantity="none")
<i>Int2d</i>	CRDC (description="Current Readout counter since last time reset", quantity="none")
<i>Int2d</i>	CRECR (description="CRE status word", quantity="none")

3.1.13. PACS Product Level 0.5 - Spectroscopy raw DecMec status red product

<i>product (type="HPSDMCRS", description="Spectroscopy raw DecMec status red product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")

StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")

BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	mapRasterRefOffset (description="???", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	mapRasterRefDec (description="???", quantity="arcsec")
DoubleParameter	mapRasterRefRa (description="???", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")

DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="s")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="s")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="s")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="s")
LongParameter	order (description="SLICE_INFO: filter order", quantity="s")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="s")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="micrometer")
LongParameter	repetition (description="SLICE_INFO: repetition", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
LongParameter	sliceNumber (description="Slice number", quantity="micrometer")

<i>Columns</i>		
<i>table dataset</i>	(name="DmcHeader", description="Status")	
<i>Metadata</i>		
StringParameter	MODE (description="null")	
LongParameter	DIM1 (description="Number of measures per status parameter")	
LongParameter	DIM2 (description="Number of measures per status parameter")	
<i>Columns</i>		
<i>Int1d</i>	RESETINDEX (description="Indicates the reset index of the status parameters", quantity="none")	
<i>Int1d</i>	OBSID (description="Identifier of the observation", quantity="none")	
<i>Int1d</i>	BBID (description="Building block type", quantity="none")	
<i>Int2d</i>	LBL (description="Label", quantity="none")	
<i>Int2d</i>	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")	
<i>Int2d</i>	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")	
<i>Long2d</i>	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")	
<i>Int2d</i>	VLD (description="Validity flag set by DecMec", quantity="none")	
<i>Int2d</i>	CPR (description="Chopper position", quantity="none")	
<i>Int2d</i>	WPR (description="Filter wheel Position", quantity="none")	
<i>Int2d</i>	GPR (description="Grating Position", quantity="none")	
<i>Int2d</i>	CRCRMP (description="Readout counter within an integration ramp", quantity="none")	
<i>Int2d</i>	RRR (description="Readouts in Ramp", quantity="none")	
<i>Int2d</i>	CRDC (description="Current Readout counter since last time reset", quantity="none")	
<i>Int2d</i>	CRECR (description="CRE status word", quantity="none")	

3.1.14. PACS Product Level 0.5 - Spectroscopy raw DecMec status red product

<i>product (type="HPSDMCRS", description="Spectroscopy raw DecMec status red product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")

LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")

StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	mapRasterRefOffset (description="???", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	mapRasterRefDec (description="???", quantity="arcsec")
DoubleParameter	mapRasterRefRa (description="???", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")

StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="s")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="s")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="s")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="s")
LongParameter	order (description="SLICE_INFO: filter order", quantity="s")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="s")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")

DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
LongParameter	sliceNumber (description="Slice number", quantity="micrometer")
<i>Columns</i>	
<i>table dataset</i>	(name="DmcHeader", description="Status")
<i>Metadata</i>	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
LongParameter	DIM2 (description="Number of measures per status parameter")
<i>Columns</i>	
<i>Int1d</i>	RESETINDEX (description="Indicates the reset index of the status parameters", quantity="none")
<i>Int1d</i>	OBSID (description="Identifier of the observation", quantity="none")
<i>Int1d</i>	BBID (description="Building block type", quantity="none")
<i>Int2d</i>	LBL (description="Label", quantity="none")
<i>Int2d</i>	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
<i>Int2d</i>	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
<i>Long2d</i>	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
<i>Int2d</i>	VLD (description="Validity flag set by DecMec", quantity="none")
<i>Int2d</i>	CPR (description="Chopper position", quantity="none")
<i>Int2d</i>	WPR (description="Filter wheel Position", quantity="none")
<i>Int2d</i>	GPR (description="Grating Position", quantity="none")
<i>Int2d</i>	CRCRMP (description="Readout counter within an integration ramp", quantity="none")
<i>Int2d</i>	RRR (description="Readouts in Ramp", quantity="none")
<i>Int2d</i>	CRDC (description="Current Readout counter since last time reset", quantity="none")
<i>Int2d</i>	CRECR (description="CRE status word", quantity="none")

3.1.15. PACS Product Level 0.5 - Spectroscopy slope fitted blue product

<i>product (type="HPSFITBS", description="Spectroscopy slope fitted blue product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")

LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")

DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	mapRasterRefOffset (description="???", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	mapRasterRefDec (description="???", quantity="arcsec")
DoubleParameter	mapRasterRefRa (description="???", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")

DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")

DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="micrometer")
LongParameter	repetition (description="SLICE_INFO: repetition", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
Columns	

<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double3d</i>	(description="null", quantity="V s-1")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Ra", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Dec", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Wave", description="null")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

3.1.16. PACS Product Level 0.5 - Spectroscopy slope fitted blue product

<i>product</i> (type="HPSFITBS", description="Spectroscopy slope fitted blue product")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")

DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")

StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")

BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	mapRasterRefOffset (description="???", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	mapRasterRefDec (description="???", quantity="arcsec")
DoubleParameter	mapRasterRefRa (description="???", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")

StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacsSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")

DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
Columns	
array dataset	(description="null")
Metadata	
Columns	
Double3d	(description="null", quantity="V s-1")
	()
array dataset	Dataset similar to the one above with (name="Ra", description="null")
	()
array dataset	Dataset similar to the one above with (name="Dec", description="null")
	()
array dataset	Dataset similar to the one above with (name="Wave", description="null")
	()
composite dataset	Dataset similar to the one above with (name="History", description="History of product")

3.1.17. PACS Product Level 0.5 - Spectroscopy slope fitted red product

<i>product (type="HPSFITRS", description="Spectroscopy slope fitted red product")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")

StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")

StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")

StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	mapRasterRefOffset (description="???", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	mapRasterRefDec (description="???", quantity="arcsec")
DoubleParameter	mapRasterRefRa (description="???", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")

StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")

LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="micrometer")
LongParameter	repetition (description="SLICE_INFO: repetition", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double3d</i>	(description="null", quantity="V s-1")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Ra", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Dec", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Wave", description="null")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

3.1.18. PACS Product Level 0.5 - Spectroscopy slope fitted red product

<i>product (type="HPSFITRS", description="Spectroscopy slope fitted red product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")

LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")

DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	mapRasterRefOffset (description="???", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	mapRasterRefDec (description="???", quantity="arcsec")
DoubleParameter	mapRasterRefRa (description="???", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")

DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")

DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
Columns	
array dataset	(description="null")
Metadata	

<i>Columns</i>	
<i>Double3d</i>	(description="null", quantity="V s-1")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Ra", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Dec", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Wave", description="null")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

3.1.19. PACS Product Level 0 - HPEVENTS

<i>product (type="HPEVENTS", description="HPEVENTS")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfiguration (description="Mission Configuration")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")

DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")

LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
StringParameter	level (description="Product Level", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
<i>Columns</i>	

<i>table dataset</i>	(name="HPEVENTS", description="Generated from PacketSequence \$Revision: 1.1 \$")	
<i>Metadata</i>		
<i>StringParameter</i>	revision (description="PacketSequence Revision from which this data was generated.")	
<i>Columns</i>		
<i>LongId</i>	Time (description="Time [microseconds]", quantity="microseconds")	
<i>LongId</i>	HD_SPARE_3 (description="HD_SPARE_3 [raw]", quantity="none")	
<i>LongId</i>	EVENT_SID (description="EVENT_SID [raw]", quantity="none")	
<i>StringId</i>	EVENT_COUNT_ID (description="EVENT_COUNT_ID", quantity="none")	
<i>LongId</i>	HD_VERSION_NUMB (description="HD_VERSION_NUMB [raw]", quantity="none")	
<i>LongId</i>	EVENT_OBSID (description="EVENT_OBSID [raw]", quantity="none")	
<i>LongId</i>	HD_LENGTH (description="HD_LENGTH [raw]", quantity="none")	
<i>LongId</i>	FIRST32BIT_TIME (description="FIRST32BIT_TIME [raw]", quantity="none")	
<i>LongId</i>	HD_APID (description="HD_APID [raw]", quantity="none")	
<i>LongId</i>	HD_SPARE_1 (description="HD_SPARE_1 [raw]", quantity="none")	
<i>LongId</i>	HD_PACKET_TYPE (description="HD_PACKET_TYPE [raw]", quantity="none")	
<i>DoubleId</i>	LAST_16BIT_TIME (description="LAST_16BIT_TIME [eng, s]", quantity="none")	
<i>LongId</i>	HD_SPARE_2 (description="HD_SPARE_2 [raw]", quantity="none")	
<i>LongId</i>	EVENT_BBID (description="EVENT_BBID [raw]", quantity="none")	
<i>LongId</i>	HD_PUS_VERSION (description="HD_PUS_VERSION [raw]", quantity="none")	
<i>LongId</i>	HD_SEG_FLAG (description="HD_SEG_FLAG [raw]", quantity="none")	
<i>LongId</i>	HD_PCKT_SUBTYPE (description="HD_PCKT_SUBTYPE [raw]", quantity="none")	
<i>StringId</i>	EVENT_ID (description="EVENT_ID", quantity="none")	
<i>LongId</i>	HD_SRC_SEQ_CTN (description="HD_SRC_SEQ_CTN [raw]", quantity="none")	
<i>LongId</i>	HD_DATA_FLAG (description="HD_DATA_FLAG [raw]", quantity="none")	
<i>LongId</i>	HD_SOURCE_TYPE (description="HD_SOURCE_TYPE [raw]", quantity="none")	
<i>LongId</i>	EVENT_COUNTER (description="EVENT_COUNTER [raw]", quantity="none")	
<i>DoubleId</i>	PACKET_COUNTER (description="PACKET_COUNTER [raw]", quantity="none")	
<i>DoubleId</i>	PARAMETER_A1 (description="PARAMETER_A1 [raw]", quantity="none")	

<i>DoubleId</i>	PACKET_ECHO2 (description="PACKET_ECHO2 [raw]", quantity="none")
<i>DoubleId</i>	STATE (description="STATE [raw]", quantity="none")
<i>DoubleId</i>	PACKET_ECHO1 (description="PACKET_ECHO1 [raw]", quantity="none")
<i>DoubleId</i>	FCS_CRC (description="FCS_CRC [raw]", quantity="none")
<i>DoubleId</i>	PARAMETER_A (description="PARAMETER_A [raw]", quantity="none")
<i>DoubleId</i>	PIX_VALUE (description="PIX_VALUE [raw]", quantity="none")
<i>DoubleId</i>	STATUS (description="STATUS [raw]", quantity="none")
<i>DoubleId</i>	SECOND_VALUE_1 (description="SECOND_VALUE_1 [raw]", quantity="none")
<i>DoubleId</i>	FIRST_VALUE_1 (description="FIRST_VALUE_1 [raw]", quantity="none")
<i>DoubleId</i>	FIRST_WORD (description="FIRST_WORD [raw]", quantity="none")
<i>DoubleId</i>	1355_LINK_5 (description="1355_LINK_5 [raw]", quantity="none")
<i>DoubleId</i>	SECOND_WORD (description="SECOND_WORD [raw]", quantity="none")
<i>DoubleId</i>	SECOND_VALUE_2 (description="SECOND_VALUE_2 [raw]", quantity="none")
<i>DoubleId</i>	FIRST_VALUE_2 (description="FIRST_VALUE_2 [raw]", quantity="none")
<i>DoubleId</i>	II_COMD_WORD_6 (description="II_COMD_WORD_6 [raw]", quantity="none")
<i>DoubleId</i>	II_ACK_WORD_6 (description="II_ACK_WORD_6 [raw]", quantity="none")
<i>DoubleId</i>	I_COMD_WORD_6 (description="I_COMD_WORD_6 [raw]", quantity="none")
<i>DoubleId</i>	1355_LINK_6 (description="1355_LINK_6 [raw]", quantity="none")
<i>DoubleId</i>	I_ACK_WORD_6 (description="I_ACK_WORD_6 [raw]", quantity="none")
<i>LongId</i>	RECEIVED_WORD_8 (description="RECEIVED_WORD_8 [raw]", quantity="none")
<i>StringId</i>	1355_LINK_8 (description="1355_LINK_8", quantity="none")
<i>LongId</i>	HEADER_8 (description="HEADER_8 [raw]", quantity="none")
<i>LongId</i>	EXPEC_LENGTH_8 (description="EXPEC_LENGTH_8 [raw]", quantity="none")

3.1.20. PACS Product Level 0 - HPTCVERS

<i>product</i> (type="HPTCVERS", description="HPTCVERS")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")

StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfiguration (description="Mission Configuration")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")

LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")

StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
StringParameter	level (description="Product Level", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
Columns	
table dataset	(name="HPTCVERS", description="Generated from PacketSequence \$Revision: 1.1 \$")
Metadata	
StringParameter	revision (description="PacketSequence Revision from which this data was generated.")
Columns	
LongId	Time (description="Time [microseconds]", quantity="microseconds")
LongId	HD_SPARE_3 (description="HD_SPARE_3 [raw]", quantity="none")
LongId	HD_VERSION_NUMB (description="HD_VERSION_NUMB [raw]", quantity="none")
LongId	HD_LENGTH (description="HD_LENGTH [raw]", quantity="none")
LongId	HD_APIID (description="HD_APIID [raw]", quantity="none")
LongId	HD_SPARE_1 (description="HD_SPARE_1 [raw]", quantity="none")
DoubleId	HD_PACKET_TYPE (description="HD_PACKET_TYPE [raw]", quantity="none")
LongId	HD_SPARE_2 (description="HD_SPARE_2 [raw]", quantity="none")
LongId	HD_PUS_VERSION (description="HD_PUS_VERSION [raw]", quantity="none")
LongId	HD_SEG_FLAG (description="HD_SEG_FLAG [raw]", quantity="none")

<i>DoubleId</i>	HD_PCKT_SUBTYPE (description="HD_PCKT_SUBTYPE [raw]", quantity="none")
<i>LongId</i>	HD_SRC_SEQ_CTN (description="HD_SRC_SEQ_CTN [raw]", quantity="none")
<i>LongId</i>	HD_DATA_FLAG (description="HD_DATA_FLAG [raw]", quantity="none")
<i>LongId</i>	HD_TIME (description="HD_TIME [raw]", quantity="none")
<i>LongId</i>	HD_SOURCE_TYPE (description="HD_SOURCE_TYPE [raw]", quantity="none")
<i>LongId</i>	PCKT_SEQ_CONTR (description="PCKT_SEQ_CONTR [raw]", quantity="none")
<i>LongId</i>	TC_PACKET_TYPE (description="TC_PACKET_TYPE [raw]", quantity="none")
<i>LongId</i>	TC_PACKET_ID (description="TC_PACKET_ID [raw]", quantity="none")
<i>LongId</i>	TC_PCKT_SUBTYPE (description="TC_PCKT_SUBTYPE [raw]", quantity="none")
<i>LongId</i>	FIRST32BIT_TIME (description="FIRST32BIT_TIME [raw]", quantity="none")
<i>DoubleId</i>	LAST_16BIT_TIME (description="LAST_16BIT_TIME [eng, s]", quantity="none")

3.1.21. PACS Product Level 0 - HPGENHKS

<i>product (type="HPGENHKS", description="HPGENHKS")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfiguration (description="Mission Configuration")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")

StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")

BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")

LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
StringParameter	level (description="Product Level", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
Columns	
table dataset	(name="HPGENHKS", description="Generated from PacketSequence \$Revision: 1.1 \$")
Metadata	
StringParameter	revision (description="PacketSequence Revision from which this data was generated.")
Columns	
LongId	Time (description="Time [microseconds]", quantity="microseconds")
DoubleId	DM_CAL_SRC_TEMP (description="DM_CAL_SRC_TEMP [eng, K]", quantity="none")
StringId	DM_SEQ_ERR_NS (description="DM_SEQ_ERR_NS", quantity="none")
LongId	DM_DBR_ERROR (description="DM_DBR_ERROR [raw]", quantity="none")
StringId	DP_BUFFER_STAT (description="DP_BUFFER_STAT", quantity="none")
DoubleId	BOL_TEMP_TS (description="BOL_TEMP_TS [eng, K]", quantity="none")
StringId	DM_DRR_SENDING (description="DM_DRR_SENDING", quantity="none")
StringId	DM_DRC_LINK (description="DM_DRC_LINK", quantity="none")
LongId	DM_HKD_SPARE3 (description="DM_HKD_SPARE3 [raw]", quantity="none")
StringId	DM_DBR_LINK (description="DM_DBR_LINK", quantity="none")
StringId	DM_BPE_ERR_NS (description="DM_BPE_ERR_NS", quantity="none")
StringId	DP_EV_BOL_I_FPU (description="DP_EV_BOL_I_FPU", quantity="none")
StringId	DP_SPUL_CMD (description="DP_SPUL_CMD", quantity="none")
StringId	DM_DRR_ERR_NS (description="DM_DRR_ERR_NS", quantity="none")
LongId	DM_BLUE_PAC_ENC (description="DM_BLUE_PAC_ENC [raw]", quantity="none")
DoubleId	DM_SPU_VCC_CUR (description="DM_SPU_VCC_CUR [eng, A]", quantity="none")
LongId	DM_HK_CTRL_STAT (description="DM_HK_CTRL_STAT [raw]", quantity="none")
StringId	DP_EV_BOL_T_FPU (description="DP_EV_BOL_T_FPU", quantity="none")

<i>LongId</i>	DM_PM_DF_IND (description="DM_PM_DF_IND [raw]", quantity="none")
<i>LongId</i>	DM_HKCO_ERROR (description="DM_HKCO_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_DPUS_SPARE4 (description="DM_DPUS_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DM_HKD_SPARE1 (description="DM_HKD_SPARE1 [raw]", quantity="none")
<i>LongId</i>	DM_DPU_REC_STAT (description="DM_DPU_REC_STAT [raw]", quantity="none")
<i>StringId</i>	DP_OBCP_MANAGER (description="DP_OBCP_MANAGER", quantity="none")
<i>LongId</i>	HD_SPARE_3 (description="HD_SPARE_3 [raw]", quantity="none")
<i>StringId</i>	DM_BC_ERR_NS (description="DM_BC_ERR_NS", quantity="none")
<i>StringId</i>	DP_DEC_LINK (description="DP_DEC_LINK", quantity="none")
<i>LongId</i>	HD_VERSION_NUMB (description="HD_VERSION_NUMB [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_SP (description="BOL_TEMP_SP [eng, K]", quantity="none")
<i>StringId</i>	DP_SPUS_HK (description="DP_SPUS_HK", quantity="none")
<i>LongId</i>	DM_DBR_SPARE2 (description="DM_DBR_SPARE2 [raw]", quantity="none")
<i>LongId</i>	DM_HKCO_SPARE5 (description="DM_HKCO_SPARE5 [raw]", quantity="none")
<i>StringId</i>	DM_HKCO_TASK_AL (description="DM_HKCO_TASK_AL", quantity="none")
<i>LongId</i>	HD_SPARE_1 (description="HD_SPARE_1 [raw]", quantity="none")
<i>LongId</i>	HD_PACKET_TYPE (description="HD_PACKET_TYPE [raw]", quantity="none")
<i>LongId</i>	HD_SPARE_2 (description="HD_SPARE_2 [raw]", quantity="none")
<i>LongId</i>	SPS_VID (description="SPS_VID [raw]", quantity="none")
<i>LongId</i>	SPS_MEM_CNTRS (description="SPS_MEM_CNTRS [raw]", quantity="none")
<i>StringId</i>	DM_FPU_GR_TS_ST (description="DM_FPU_GR_TS_ST", quantity="none")
<i>StringId</i>	DM_BC_TASK_AL (description="DM_BC_TASK_AL", quantity="none")
<i>StringId</i>	DM_BC_LINK (description="DM_BC_LINK", quantity="none")
<i>LongId</i>	DM_BR_ERROR (description="DM_BR_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_FPU_FWP_TS_S (description="DM_FPU_FWP_TS_S", quantity="none")
<i>StringId</i>	DP_SPUS_CMD (description="DP_SPUS_CMD", quantity="none")
<i>DoubleId</i>	DM_DSP_TEMP (description="DM_DSP_TEMP [eng, K]", quantity="none")

<i>StringId</i>	DM_BR_SIM_TIME (description="DM_BR_SIM_TIME", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_4 (description="BOL_TEMP_R_4 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_5 (description="BOL_TEMP_R_5 [eng, degC]", quantity="none")
<i>StringId</i>	SPS_DMC_ERROR (description="SPS_DMC_ERROR", quantity="none")
<i>StringId</i>	DP_SPUL_LINK (description="DP_SPUL_LINK", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_1 (description="BOL_TEMP_R_1 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_2 (description="BOL_TEMP_R_2 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_3 (description="BOL_TEMP_R_3 [eng, degC]", quantity="none")
<i>StringId</i>	DM_SW_ALIVE (description="DM_SW_ALIVE", quantity="none")
<i>StringId</i>	DM_SEQ_RUNNING (description="DM_SEQ_RUNNING", quantity="none")
<i>StringId</i>	DM_DPUR_TASK_AL (description="DM_DPUR_TASK_AL", quantity="none")
<i>DoubleId</i>	LAST_16BIT_TIME (description="LAST_16BIT_TIME [eng, s]", quantity="none")
<i>StringId</i>	DM_DRR_TASK_WR (description="DM_DRR_TASK_WR", quantity="none")
<i>DoubleId</i>	BOL_TEMP_B_3 (description="BOL_TEMP_B_3 [eng, degC]", quantity="none")
<i>StringId</i>	DM_DBR_TASK_AL (description="DM_DBR_TASK_AL", quantity="none")
<i>LongId</i>	DP_GEN_TM_LOST (description="DP_GEN_TM_LOST [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_B_2 (description="BOL_TEMP_B_2 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_B_1 (description="BOL_TEMP_B_1 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_DAQ (description="BOL_TEMP_DAQ [eng, degC]", quantity="none")
<i>StringId</i>	DP_TEST_MODE (description="DP_TEST_MODE", quantity="none")
<i>LongId</i>	DM_CHOP_CUR_POS (description="DM_CHOP_CUR_POS [raw]", quantity="none")
<i>StringId</i>	DM_RPE_TASK_AL (description="DM_RPE_TASK_AL", quantity="none")
<i>DoubleId</i>	DM_FW_PHOT_TEMP (description="DM_FW_PHOT_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DP_BLUE_SCIENCE (description="DP_BLUE_SCIENCE", quantity="none")
<i>StringId</i>	DP_UNIT (description="DP_UNIT", quantity="none")
<i>StringId</i>	DP_DMC_CMD (description="DP_DMC_CMD", quantity="none")

<i>LongId</i>	DM_TIME_2 (description="DM_TIME_2 [raw]", quantity="none")
<i>LongId</i>	DM_DRR_ERROR (description="DM_DRR_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_TIME_1 (description="DM_TIME_1 [raw]", quantity="none")
<i>LongId</i>	DP_SPUS_LINK_PE (description="DP_SPUS_LINK_PE [raw]", quantity="none")
<i>LongId</i>	DM_BR_SPARE2 (description="DM_BR_SPARE2 [raw]", quantity="none")
<i>LongId</i>	DM_PM_SF_IND (description="DM_PM_SF_IND [raw]", quantity="none")
<i>LongId</i>	DM_BPE_ERROR (description="DM_BPE_ERROR [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_EV (description="BOL_TEMP_EV [eng, K]", quantity="none")
<i>LongId</i>	DP_COM_SPL_PACK (description="DP_COM_SPL_PACK [raw]", quantity="none")
<i>StringId</i>	DM_DBC_LINK (description="DM_DBC_LINK", quantity="none")
<i>StringId</i>	DM_DPUS_ERR_NS (description="DM_DPUS_ERR_NS", quantity="none")
<i>StringId</i>	DM_FWPH_CUR_POS (description="DM_FWPH_CUR_POS", quantity="none")
<i>LongId</i>	DM_DPUS_ERROR (description="DM_DPUS_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_HKD_TASK_WR (description="DM_HKD_TASK_WR", quantity="none")
<i>StringId</i>	DP_STABLE_SPS (description="DP_STABLE_SPS", quantity="none")
<i>LongId</i>	DM_DECB_CTRL_PA (description="DM_DECB_CTRL_PA [raw]", quantity="none")
<i>LongId</i>	DM_BOL_READ_CNT (description="DM_BOL_READ_CNT [raw]", quantity="none")
<i>StringId</i>	DM_HKCO_ERR_NS (description="DM_HKCO_ERR_NS", quantity="none")
<i>LongId</i>	FIRST32BIT_TIME (description="FIRST32BIT_TIME [raw]", quantity="none")
<i>StringId</i>	DM_HKD_DIAGMODE (description="DM_HKD_DIAGMODE", quantity="none")
<i>StringId</i>	DP_1553_HANDLER (description="DP_1553_HANDLER", quantity="none")
<i>StringId</i>	DM_DRC_TASK_AL (description="DM_DRC_TASK_AL", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF12 (description="DM_LAST_ER_BF12 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF13 (description="DM_LAST_ER_BF13 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF14 (description="DM_LAST_ER_BF14 [raw]", quantity="none")

<i>LongId</i>	DM_LAST_ER_BF15 (description="DM_LAST_ER_BF15 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF10 (description="DM_LAST_ER_BF10 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF11 (description="DM_LAST_ER_BF11 [raw]", quantity="none")
<i>LongId</i>	DM_RPE_ERROR (description="DM_RPE_ERROR [raw]", quantity="none")
<i>DoubleId</i>	DM_PSC_V2 (description="DM_PSC_V2 [eng, mA]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF16 (description="DM_LAST_ER_BF16 [raw]", quantity="none")
<i>DoubleId</i>	DM_PSC_V1 (description="DM_PSC_V1 [eng, A]", quantity="none")
<i>DoubleId</i>	DM_PSC_V4 (description="DM_PSC_V4 [eng, A]", quantity="none")
<i>StringId</i>	DP_EEPROM_PROT (description="DP_EEPROM_PROT", quantity="none")
<i>DoubleId</i>	DM_PSC_V3 (description="DM_PSC_V3 [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_SPU_PS_TEMP (description="DM_SPU_PS_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_HKD_ERR_NS (description="DM_HKD_ERR_NS", quantity="none")
<i>LongId</i>	DP_COM_DMC (description="DP_COM_DMC [raw]", quantity="none")
<i>StringId</i>	DP_OBCP_RUN (description="DP_OBCP_RUN", quantity="none")
<i>StringId</i>	DP_IRQ3_TASK (description="DP_IRQ3_TASK", quantity="none")
<i>DoubleId</i>	DM_FPU_T2_TEMP (description="DM_FPU_T2_TEMP [eng, K]", quantity="none")
<i>DoubleId</i>	DM_REF_VOLT_0V (description="DM_REF_VOLT_0V [eng, V]", quantity="none")
<i>StringId</i>	DM_FPU_S1_TS_ST (description="DM_FPU_S1_TS_ST", quantity="none")
<i>LongId</i>	SID (description="SID [raw]", quantity="none")
<i>LongId</i>	SPS_PIX (description="SPS_PIX [raw]", quantity="none")
<i>DoubleId</i>	BOL_HEATER_FPU (description="BOL_HEATER_FPU [eng, A]", quantity="none")
<i>StringId</i>	DM_BPE_TASK_AL (description="DM_BPE_TASK_AL", quantity="none")
<i>StringId</i>	DM_FPU_CH_TS_ST (description="DM_FPU_CH_TS_ST", quantity="none")
<i>DoubleId</i>	DM_CPU_LOAD (description="DM_CPU_LOAD [eng, %]", quantity="none")
<i>LongId</i>	DM_BBID (description="DM_BBID [raw]", quantity="none")
<i>StringId</i>	DP_STABLE_SPL (description="DP_STABLE_SPL", quantity="none")

<i>StringId</i>	DM_DBR_ERR_NS (description="DM_DBR_ERR_NS", quantity="none")
<i>StringId</i>	DM_DPUR_ERR_NS (description="DM_DPUR_ERR_NS", quantity="none")
<i>StringId</i>	DM_FPU_FWS_TS_S (description="DM_FPU_FWS_TS_S", quantity="none")
<i>StringId</i>	SPS_DMC_LINK (description="SPS_DMC_LINK", quantity="none")
<i>DoubleId</i>	DM_FPU_T1_TEMP (description="DM_FPU_T1_TEMP [eng, K]", quantity="none")
<i>LongId</i>	SPL_VID (description="SPL_VID [raw]", quantity="none")
<i>LongId</i>	DM_BOL_CTRL_PAC (description="DM_BOL_CTRL_PAC [raw]", quantity="none")
<i>DoubleId</i>	BOL_HEAT_SP_SWT (description="BOL_HEAT_SP_SWT [eng, A]", quantity="none")
<i>LongId</i>	DP_COM_DMC_PACK (description="DP_COM_DMC_PACK [raw]", quantity="none")
<i>LongId</i>	DM_DECR_CTRL_PA (description="DM_DECR_CTRL_PA [raw]", quantity="none")
<i>LongId</i>	DM_BLUE_ENC_PAC (description="DM_BLUE_ENC_PAC [raw]", quantity="none")
<i>LongId</i>	DP_SPUL_LINK_DE (description="DP_SPUL_LINK_DE [raw]", quantity="none")
<i>DoubleId</i>	DM_SPU_VP_CUR (description="DM_SPU_VP_CUR [eng, mA]", quantity="none")
<i>LongId</i>	HD_APIID (description="HD_APIID [raw]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_2R (description="BOL_I_HEATER_2R [eng, A]", quantity="none")
<i>LongId</i>	DM_DRC_SPARE3 (description="DM_DRC_SPARE3 [raw]", quantity="none")
<i>LongId</i>	HD_SEG_FLAG (description="HD_SEG_FLAG [raw]", quantity="none")
<i>StringId</i>	DP_STABLE_DEC (description="DP_STABLE_DEC", quantity="none")
<i>LongId</i>	DM_BOL_STATUS (description="DM_BOL_STATUS [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ERR_ID (description="DM_LAST_ERR_ID [raw]", quantity="none")
<i>LongId</i>	DM_B_SPEC_READ (description="DM_B_SPEC_READ [raw]", quantity="none")
<i>LongId</i>	DM_RED_ENC_PAC (description="DM_RED_ENC_PAC [raw]", quantity="none")
<i>StringId</i>	DP_EV_DEC_SPC (description="DP_EV_DEC_SPC", quantity="none")
<i>DoubleId</i>	DM_SPU_VCC_VOL (description="DM_SPU_VCC_VOL [eng, V]", quantity="none")
<i>StringId</i>	DP_SPL_LINK (description="DP_SPL_LINK", quantity="none")

<i>LongId</i>	DM_IRS_CNT (description="DM_IRS_CNT [raw]", quantity="none")
<i>DoubleId</i>	DM_CHOPPER_TEMP (description="DM_CHOPPER_TEMP [eng, K]", quantity="none")
<i>StringId</i>	SPL_DMC_LINK (description="SPL_DMC_LINK", quantity="none")
<i>LongId</i>	DM_SW_SPARE5 (description="DM_SW_SPARE5 [raw]", quantity="none")
<i>LongId</i>	DP_COM_SPS_NACK (description="DP_COM_SPS_NACK [raw]", quantity="none")
<i>StringId</i>	DM_BR_TASK_WR (description="DM_BR_TASK_WR", quantity="none")
<i>LongId</i>	DM_BPE_SPARE4 (description="DM_BPE_SPARE4 [raw]", quantity="none")
<i>StringId</i>	DM_DBR_SENDING (description="DM_DBR_SENDING", quantity="none")
<i>LongId</i>	DP_DEC_LINK_PE (description="DP_DEC_LINK_PE [raw]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_1R (description="BOL_I_HEATER_1R [eng, A]", quantity="none")
<i>LongId</i>	DP_TC_LOST (description="DP_TC_LOST [raw]", quantity="none")
<i>StringId</i>	DP_RED_SCIENCE (description="DP_RED_SCIENCE", quantity="none")
<i>DoubleId</i>	SPS_CPUWORKLOAD (description="SPS_CPUWORKLOAD [eng, %]", quantity="none")
<i>StringId</i>	DM_DBC_TASK_WR (description="DM_DBC_TASK_WR", quantity="none")
<i>LongId</i>	DP_COM_SPUS (description="DP_COM_SPUS [raw]", quantity="none")
<i>LongId</i>	HD_SRC_SEQ_CTN (description="HD_SRC_SEQ_CTN [raw]", quantity="none")
<i>StringId</i>	DM_DPUR_TASK_WR (description="DM_DPUR_TASK_WR", quantity="none")
<i>LongId</i>	DP_COM_SPUL (description="DP_COM_SPUL [raw]", quantity="none")
<i>StringId</i>	DM_SEQ_TASK_AL (description="DM_SEQ_TASK_AL", quantity="none")
<i>DoubleId</i>	BOL_TEMP_SP_SWT (description="BOL_TEMP_SP_SWT [eng, K]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B2 (description="BOL_I_HEATER_B2 [eng, A]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B3 (description="BOL_I_HEATER_B3 [eng, A]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B4 (description="BOL_I_HEATER_B4 [eng, A]", quantity="none")
<i>StringId</i>	DM_RPE_LINK (description="DM_RPE_LINK", quantity="none")
<i>LongId</i>	DM_SEQ_STATUS (description="DM_SEQ_STATUS [raw]", quantity="none")

<i>LongId</i>	DM_DBC_SPARE3 (description="DM_DBC_SPARE3 [raw]", quantity="none")
<i>LongId</i>	DM_RPE_SPARE4 (description="DM_RPE_SPARE4 [raw]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B1 (description="BOL_I_HEATER_B1 [eng, A]", quantity="none")
<i>StringId</i>	DM_RPE_TASK_WR (description="DM_RPE_TASK_WR", quantity="none")
<i>StringId</i>	DP_WHICH_OBCP (description="DP_WHICH_OBCP", quantity="none")
<i>StringId</i>	DP_1553CHANNEL (description="DP_1553CHANNEL", quantity="none")
<i>LongId</i>	DM_DECB_CTRL_ST (description="DM_DECB_CTRL_ST [raw]", quantity="none")
<i>StringId</i>	DM_DBC_POWER (description="DM_DBC_POWER", quantity="none")
<i>LongId</i>	DP_COM_DMC_NACK (description="DP_COM_DMC_NACK [raw]", quantity="none")
<i>StringId</i>	DM_DRC_POWER (description="DM_DRC_POWER", quantity="none")
<i>StringId</i>	DP_COUNTER_SPS (description="DP_COUNTER_SPS", quantity="none")
<i>StringId</i>	DM_BR_TASK_AL (description="DM_BR_TASK_AL", quantity="none")
<i>LongId</i>	DM_DPUR_SPARE4 (description="DM_DPUR_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DP_SW_SUBVERS_ID (description="DP_SW_SUBVERS_ID [raw]", quantity="none")
<i>StringId</i>	DM_BPE_LINK (description="DM_BPE_LINK", quantity="none")
<i>LongId</i>	DP_COM_REC_DPU (description="DP_COM_REC_DPU [raw]", quantity="none")
<i>StringId</i>	DM_DPUS_TASK_WR (description="DM_DPUS_TASK_WR", quantity="none")
<i>StringId</i>	DM_DBC_TASK_AL (description="DM_DBC_TASK_AL", quantity="none")
<i>LongId</i>	DM_R_SPEC_READ (description="DM_R_SPEC_READ [raw]", quantity="none")
<i>LongId</i>	DM_DM_SF_IND (description="DM_DM_SF_IND [raw]", quantity="none")
<i>StringId</i>	DM_SEQ_IDLE (description="DM_SEQ_IDLE", quantity="none")
<i>LongId</i>	DM_RED_PAC_ENC (description="DM_RED_PAC_ENC [raw]", quantity="none")
<i>LongId</i>	DM_FPU_T_SEN_ST (description="DM_FPU_T_SEN_ST [raw]", quantity="none")
<i>StringId</i>	DM_HKD_TASK_AL (description="DM_HKD_TASK_AL", quantity="none")
<i>LongId</i>	DM_DECB_REC_STA (description="DM_DECB_REC_STA [raw]", quantity="none")

<i>LongId</i>	DM_BOL_CTRL_STA (description="DM_BOL_CTRL_STA [raw]", quantity="none")
<i>StringId</i>	DM_DRC_ERR_NS (description="DM_DRC_ERR_NS", quantity="none")
<i>DoubleId</i>	DM_REF_VOLT_5V (description="DM_REF_VOLT_5V [eng, V]", quantity="none")
<i>StringId</i>	DP_CONTROLLER (description="DP_CONTROLLER", quantity="none")
<i>LongId</i>	DM_DPU_SEN_STAT (description="DM_DPU_SEN_STAT [raw]", quantity="none")
<i>LongId</i>	DP_COM_SPL_NACK (description="DP_COM_SPL_NACK [raw]", quantity="none")
<i>LongId</i>	SPL_CI (description="SPL_CI [raw]", quantity="none")
<i>LongId</i>	HD_SOURCE_TYPE (description="HD_SOURCE_TYPE [raw]", quantity="none")
<i>DoubleId</i>	BOL_HEAT_EV_SWT (description="BOL_HEAT_EV_SWT [eng, A]", quantity="none")
<i>LongId</i>	DM_HKD_ERROR (description="DM_HKD_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_SW_GLOBAL_ST (description="DM_SW_GLOBAL_ST [raw]", quantity="none")
<i>StringId</i>	DM_BR_ERR_NS (description="DM_BR_ERR_NS", quantity="none")
<i>DoubleId</i>	DP_T (description="DP_T [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_PSU_2 (description="BOL_TEMP_PSU_2 [eng, degC]", quantity="none")
<i>LongId</i>	DM_DECB_REC_PAC (description="DM_DECB_REC_PAC [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_PSU_1 (description="BOL_TEMP_PSU_1 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_7 (description="BOL_PWR_ANA_P_7 [eng, V]", quantity="none")
<i>LongId</i>	DP_SPUL_LINK_PE (description="DP_SPUL_LINK_PE [raw]", quantity="none")
<i>StringId</i>	DP_BURST_MODE (description="DP_BURST_MODE", quantity="none")
<i>LongId</i>	DM_DPU_SEND_PAC (description="DM_DPU_SEND_PAC [raw]", quantity="none")
<i>StringId</i>	DM_FPU_S2_TS_ST (description="DM_FPU_S2_TS_ST", quantity="none")
<i>StringId</i>	DP_DMC_LINK (description="DP_DMC_LINK", quantity="none")
<i>LongId</i>	DM_VID (description="DM_VID [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF5 (description="DM_LAST_ER_BF5 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF6 (description="DM_LAST_ER_BF6 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF3 (description="DM_LAST_ER_BF3 [raw]", quantity="none")

<i>StringId</i>	DP_EV_BOL_V_PWR (description="DP_EV_BOL_V_PWR", quantity="none")
<i>LongId</i>	SPL_PIX (description="SPL_PIX [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF4 (description="DM_LAST_ER_BF4 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF9 (description="DM_LAST_ER_BF9 [raw]", quantity="none")
<i>LongId</i>	DM_BOL_REC_STAT (description="DM_BOL_REC_STAT [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF7 (description="DM_LAST_ER_BF7 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF8 (description="DM_LAST_ER_BF8 [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_SP2 (description="DP_EV_BOL_I_SP2", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF1 (description="DM_LAST_ER_BF1 [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_BIAS (description="DP_EV_BOL_BIAS", quantity="none")
<i>LongId</i>	DM_HK_DIAG_STAT (description="DM_HK_DIAG_STAT [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF2 (description="DM_LAST_ER_BF2 [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_SP1 (description="DP_EV_BOL_I_SP1", quantity="none")
<i>StringId</i>	DP_COUNTER_DEC (description="DP_COUNTER_DEC", quantity="none")
<i>LongId</i>	DP_STATUS (description="DP_STATUS [raw]", quantity="none")
<i>StringId</i>	DP_EVENT_DEC (description="DP_EVENT_DEC", quantity="none")
<i>LongId</i>	DM_DPUR_ERROR (description="DM_DPUR_ERROR [raw]", quantity="none")
<i>StringId</i>	DP_SPS_LINK (description="DP_SPS_LINK", quantity="none")
<i>LongId</i>	DP_COM_REJ_DPU (description="DP_COM_REJ_DPU [raw]", quantity="none")
<i>LongId</i>	DM_GRAT_CUR_POS (description="DM_GRAT_CUR_POS [raw]", quantity="none")
<i>LongId</i>	DM_DM_DF_IND (description="DM_DM_DF_IND [raw]", quantity="none")
<i>StringId</i>	DM_RPE_ERR_NS (description="DM_RPE_ERR_NS", quantity="none")
<i>LongId</i>	DM_OBSID (description="DM_OBSID [raw]", quantity="none")
<i>StringId</i>	DP_HK_MONITOR (description="DP_HK_MONITOR", quantity="none")
<i>LongId</i>	DM_DECR_REC_STA (description="DM_DECR_REC_STA [raw]", quantity="none")
<i>StringId</i>	DM_DBC_ERR_NS (description="DM_DBC_ERR_NS", quantity="none")

<i>DoubleId</i>	DM_SPU_PSU_P15V (description="DM_SPU_PSU_P15V [eng, V]", quantity="none")
<i>DoubleId</i>	DM_SPU_LWL_TEMP (description="DM_SPU_LWL_TEMP [eng, K]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_5 (description="DM_CUSTOM_ENT_5 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_4 (description="DM_CUSTOM_ENT_4 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_7 (description="DM_CUSTOM_ENT_7 [raw]", quantity="none")
<i>LongId</i>	DP_DEC_LINK_DE (description="DP_DEC_LINK_DE [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_6 (description="DM_CUSTOM_ENT_6 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_9 (description="DM_CUSTOM_ENT_9 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_8 (description="DM_CUSTOM_ENT_8 [raw]", quantity="none")
<i>StringId</i>	DP_HK_CHK (description="DP_HK_CHK", quantity="none")
<i>LongId</i>	DM_DECR_CTRL_ST (description="DM_DECR_CTRL_ST [raw]", quantity="none")
<i>LongId</i>	HD_DATA_FLAG (description="HD_DATA_FLAG [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_1 (description="DM_CUSTOM_ENT_1 [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_T_WE (description="DP_EV_BOL_T_WE", quantity="none")
<i>StringId</i>	DM_DRC_TASK_WR (description="DM_DRC_TASK_WR", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_3 (description="DM_CUSTOM_ENT_3 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_2 (description="DM_CUSTOM_ENT_2 [raw]", quantity="none")
<i>StringId</i>	DM_DPUS_LINK (description="DM_DPUS_LINK", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_7 (description="BOL_PWR_DIG_7 [eng, V]", quantity="none")
<i>LongId</i>	DM_BC_SPARE4 (description="DM_BC_SPARE4 [raw]", quantity="none")
<i>StringId</i>	DM_DBR_SIM_TIME (description="DM_DBR_SIM_TIME", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_RO (description="DP_EV_BOL_I_RO", quantity="none")
<i>StringId</i>	DM_SW_COPY_OBS (description="DM_SW_COPY_OBS", quantity="none")
<i>StringId</i>	DM_SEQ_TASK_WR (description="DM_SEQ_TASK_WR", quantity="none")
<i>StringId</i>	DM_SW_ERR (description="DM_SW_ERR", quantity="none")

<i>DoubleId</i>	BOL_TEMP_FPU_ST (description="BOL_TEMP_FPU_ST [eng, K]", quantity="none")
<i>StringId</i>	DM_FWSP_CUR_POS (description="DM_FWSP_CUR_POS", quantity="none")
<i>StringId</i>	DM_BR_SENDING (description="DM_BR_SENDING", quantity="none")
<i>StringId</i>	DP_EVENT_SPU (description="DP_EVENT_SPU", quantity="none")
<i>StringId</i>	DM_DPUS_TASK_AL (description="DM_DPUS_TASK_AL", quantity="none")
<i>StringId</i>	DM_DPUR_LINK (description="DM_DPUR_LINK", quantity="none")
<i>DoubleId</i>	DP_VOL_15P (description="DP_VOL_15P [eng, V]", quantity="none")
<i>StringId</i>	DM_FPU_CS_TS_ST (description="DM_FPU_CS_TS_ST", quantity="none")
<i>DoubleId</i>	DM_FW_SPEC_TEMP (description="DM_FW_SPEC_TEMP [eng, K]", quantity="none")
<i>DoubleId</i>	DP_VOL_15N (description="DP_VOL_15N [eng, V]", quantity="none")
<i>StringId</i>	DM_BR_LINK (description="DM_BR_LINK", quantity="none")
<i>StringId</i>	DM_HKCO_TASK_WR (description="DM_HKCO_TASK_WR", quantity="none")
<i>LongId</i>	SPS_CI (description="SPS_CI [raw]", quantity="none")
<i>StringId</i>	DM_DRR_TASK_AL (description="DM_DRR_TASK_AL", quantity="none")
<i>DoubleId</i>	DP_WORK_LOAD (description="DP_WORK_LOAD [eng, %]", quantity="none")
<i>LongId</i>	DP_HK_LOST (description="DP_HK_LOST [raw]", quantity="none")
<i>DoubleId</i>	DM_GRATING_TEMP (description="DM_GRATING_TEMP [eng, K]", quantity="none")
<i>LongId</i>	HD_LENGTH (description="HD_LENGTH [raw]", quantity="none")
<i>LongId</i>	DP_COM_SPS_PACK (description="DP_COM_SPS_PACK [raw]", quantity="none")
<i>LongId</i>	DP_1_8_REJECTED (description="DP_1_8_REJECTED [raw]", quantity="none")
<i>LongId</i>	DM_DRR_SPARE2 (description="DM_DRR_SPARE2 [raw]", quantity="none")
<i>LongId</i>	DM_SEQ_ERROR (description="DM_SEQ_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_DRC_ERROR (description="DM_DRC_ERROR [raw]", quantity="none")
<i>StringId</i>	DP_1355_LINK (description="DP_1355_LINK", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU1 (description="BOL_TEMP_FPU1 [eng, K]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU2 (description="BOL_TEMP_FPU2 [eng, K]", quantity="none")

<i>DoubleId</i>	BOL_TEMP_EV_SWT (description="BOL_TEMP_EV_SWT [eng, K]", quantity="none")
<i>LongId</i>	HD_PCKT_SUBTYPE (description="HD_PCKT_SUBTYPE [raw]", quantity="none")
<i>LongId</i>	DM_DBC_ERROR (description="DM_DBC_ERROR [raw]", quantity="none")
<i>LongId</i>	DP_1_2_REJECTED (description="DP_1_2_REJECTED [raw]", quantity="none")
<i>StringId</i>	DM_BPE_TASK_WR (description="DM_BPE_TASK_WR", quantity="none")
<i>StringId</i>	DP_AF_24_SPARE (description="DP_AF_24_SPARE", quantity="none")
<i>LongId</i>	DM_SW_ERROR (description="DM_SW_ERROR [raw]", quantity="none")
<i>DoubleId</i>	DM_DCDC_TEMP (description="DM_DCDC_TEMP [eng, K]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT10 (description="DM_CUSTOM_ENT10 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_7 (description="BOL_PWR_ANA_N_7 [eng, V]", quantity="none")
<i>StringId</i>	DP_1355_HANDLER (description="DP_1355_HANDLER", quantity="none")
<i>StringId</i>	SPL_DMC_ERROR (description="SPL_DMC_ERROR", quantity="none")
<i>DoubleId</i>	DM_SPU_SWL_TEMP (description="DM_SPU_SWL_TEMP [eng, K]", quantity="none")
<i>LongId</i>	DM_HK_DIAG_PERI (description="DM_HK_DIAG_PERI [raw]", quantity="none")
<i>StringId</i>	DM_DRR_SIM_TIME (description="DM_DRR_SIM_TIME", quantity="none")
<i>LongId</i>	HD_PUS_VERSION (description="HD_PUS_VERSION [raw]", quantity="none")
<i>LongId</i>	DP_SPARE (description="DP_SPARE [raw]", quantity="none")
<i>LongId</i>	DP_SW_VERS_ID (description="DP_SW_VERS_ID [raw]", quantity="none")
<i>StringId</i>	DP_SPUL_HK (description="DP_SPUL_HK", quantity="none")
<i>LongId</i>	DM_BOL_REC_PAC (description="DM_BOL_REC_PAC [raw]", quantity="none")
<i>StringId</i>	DP_COUNTER_SPEC (description="DP_COUNTER_SPEC", quantity="none")
<i>DoubleId</i>	DP_VOL_25P (description="DP_VOL_25P [eng, V]", quantity="none")
<i>LongId</i>	DP_EVENT_LOST (description="DP_EVENT_LOST [raw]", quantity="none")
<i>StringId</i>	DM_DRR_LINK (description="DM_DRR_LINK", quantity="none")
<i>DoubleId</i>	SPL_CPUWORKLOAD (description="SPL_CPUWORKLOAD [eng, %]", quantity="none")

<i>StringId</i>	DM_DBR_TASK_WR (description="DM_DBR_TASK_WR", quantity="none")
<i>StringId</i>	DP_SPUS_LINK (description="DP_SPUS_LINK", quantity="none")
<i>StringId</i>	DP_EVENT_DPU (description="DP_EVENT_DPU", quantity="none")
<i>LongId</i>	DM_SEQ_SPARE2 (description="DM_SEQ_SPARE2 [raw]", quantity="none")
<i>DoubleId</i>	DP_VOL_5P (description="DP_VOL_5P [eng, V]", quantity="none")
<i>LongId</i>	DM_DPU_REC_PAC (description="DM_DPU_REC_PAC [raw]", quantity="none")
<i>StringId</i>	DP_COUNTER_SPL (description="DP_COUNTER_SPL", quantity="none")
<i>LongId</i>	DM_SEQ_SPARE1 (description="DM_SEQ_SPARE1 [raw]", quantity="none")
<i>StringId</i>	DM_BC_TASK_WR (description="DM_BC_TASK_WR", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_HEA (description="DP_EV_BOL_I_HEA", quantity="none")
<i>StringId</i>	DP_INIT (description="DP_INIT", quantity="none")
<i>LongId</i>	SPL_MEM_CNTS (description="SPL_MEM_CNTS [raw]", quantity="none")
<i>DoubleId</i>	BOL_HEATER_SP (description="BOL_HEATER_SP [eng, A]", quantity="none")
<i>StringId</i>	DP_COUNTER_PHOT (description="DP_COUNTER_PHOT", quantity="none")
<i>LongId</i>	DP_AF_STATUS (description="DP_AF_STATUS [raw]", quantity="none")
<i>LongId</i>	DM_DECR_REC_PAC (description="DM_DECR_REC_PAC [raw]", quantity="none")
<i>LongId</i>	DP_SPUS_LINK_DE (description="DP_SPUS_LINK_DE [raw]", quantity="none")
<i>StringId</i>	DP_TM_RATE (description="DP_TM_RATE", quantity="none")
<i>StringId</i>	DP_DMC_HK (description="DP_DMC_HK", quantity="none")
<i>LongId</i>	DM_BC_ERROR (description="DM_BC_ERROR [raw]", quantity="none")

3.1.22. PACS Product Level 0 - DecMec Data Spectrometer blue

<i>product</i> (type="HPSDMCBS", description="DecMec Data Spectrometer blue")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")

StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
StringParameter	level (description="Product Level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")

DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")

StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
<i>Columns</i>	
<i>table dataset</i>	(name="DmcHeader", description="Status")
<i>Metadata</i>	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
LongParameter	DIM2 (description="Number of measures per status parameter")
<i>Columns</i>	
<i>Int1d</i>	RESETINDEX (description="Indicates the reset index of the status parameters", quantity="none")
<i>Int1d</i>	OBSID (description="Identifier of the observation", quantity="none")
<i>Int1d</i>	BBID (description="Building block type", quantity="none")
<i>Int2d</i>	LBL (description="Label", quantity="none")
<i>Int2d</i>	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
<i>Int2d</i>	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")

<i>Long2d</i>	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
<i>Int2d</i>	VLD (description="Validity flag set by DecMec", quantity="none")
<i>Int2d</i>	CPR (description="Chopper position", quantity="none")
<i>Int2d</i>	WPR (description="Filter wheel Position", quantity="none")
<i>Int2d</i>	GPR (description="Grating Position", quantity="none")
<i>Int2d</i>	CRCRMP (description="Readout counter within an integration ramp", quantity="none")
<i>Int2d</i>	RRR (description="Readouts in Ramp", quantity="none")
<i>Int2d</i>	CRDC (description="Current Readout counter since last time reset", quantity="none")
<i>Int2d</i>	CRECR (description="CRE status word", quantity="none")

3.1.23. PACS Product Level 0 - DecMec Data Spectrometer red

<i>product (type="HPSDMCRS", description="DecMec Data Spectrometer red")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
StringParameter	level (description="Product Level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")

StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")

DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")

LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
Columns	
table dataset	(name="DmcHeader", description="Status")
Metadata	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
LongParameter	DIM2 (description="Number of measures per status parameter")
Columns	
Int1d	RESETINDEX (description="Indicates the reset index of the status parameters", quantity="none")
Int1d	OBSID (description="Identifier of the observation", quantity="none")
Int1d	BBID (description="Building block type", quantity="none")
Int2d	LBL (description="Label", quantity="none")
Int2d	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
Int2d	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
Long2d	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
Int2d	VLD (description="Validity flag set by DecMec", quantity="none")
Int2d	CPR (description="Chopper position", quantity="none")
Int2d	WPR (description="Filter wheel Position", quantity="none")
Int2d	GPR (description="Grating Position", quantity="none")
Int2d	CRCRMP (description="Readout counter within an integration ramp", quantity="none")
Int2d	RRR (description="Readouts in Ramp", quantity="none")
Int2d	CRDC (description="Current Readout counter since last time reset", quantity="none")
Int2d	CRECR (description="CRE status word", quantity="none")

3.1.24. PACS Product Level 0 - Fitted Data Spectrometer blue

<i>product (type="HPSFITBS", description="Fitted Data Spectrometer blue")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")

StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product Level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")

StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")

StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
<i>Columns</i>	
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double3d</i>	(description="null", quantity="none")

3.1.25. PACS Product Level 0 - Fitted Data Spectrometer red

<i>product (type="HPSFITRS", description="Fitted Data Spectrometer red")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product Level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")

StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")

BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")

DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
Columns	
array dataset	(description="null")
Metadata	
Columns	
Double3d	(description="null", quantity="none")

3.1.26. PACS Product Level 0 - HPSHKS

<i>product (type="HPSHKS", description="HPSHKS")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfiguration (description="Mission Configuration")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")

StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")

StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
StringParameter	level (description="Product Level", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
<i>Columns</i>	
<i>table dataset</i>	(name="HPSHKS", description="Generated from PacketSequence \$Revision: 1.1 \$")
<i>Metadata</i>	

StringParameter	revision (description="PacketSequence Revision from which this data was generated.")
Columns	
LongId	Time (description="Time [microseconds]", quantity="microseconds")
StringId	DM_SEQ_ERR_NS (description="DM_SEQ_ERR_NS", quantity="none")
StringId	DM_CS1C_COMMUT (description="DM_CS1C_COMMUT", quantity="none")
LongId	DM_FW_SPEC_CTRL (description="DM_FW_SPEC_CTRL [raw]", quantity="none")
DoubleId	DM_DECB_BR_CM_4 (description="DM_DECB_BR_CM_4 [eng, V]", quantity="none")
LongId	DM_DBR_ERROR (description="DM_DBR_ERROR [raw]", quantity="none")
DoubleId	DM_DECB_BR_CM_3 (description="DM_DECB_BR_CM_3 [eng, V]", quantity="none")
StringId	DP_BUFFER_STAT (description="DP_BUFFER_STAT", quantity="none")
DoubleId	BOL_TEMP_TS (description="BOL_TEMP_TS [eng, K]", quantity="none")
LongId	DM_HKD_SPARE3 (description="DM_HKD_SPARE3 [raw]", quantity="none")
DoubleId	DM_DECR_TS_2_2 (description="DM_DECR_TS_2_2 [eng, K]", quantity="none")
StringId	DM_DBR_LINK (description="DM_DBR_LINK", quantity="none")
DoubleId	DM_DECR_TS_2_1 (description="DM_DECR_TS_2_1 [eng, K]", quantity="none")
StringId	DM_BPE_ERR_NS (description="DM_BPE_ERR_NS", quantity="none")
StringId	DP_EV_BOL_I_FPU (description="DP_EV_BOL_I_FPU", quantity="none")
StringId	DM_DRR_ERR_NS (description="DM_DRR_ERR_NS", quantity="none")
DoubleId	DM_SPU_VCC_CUR (description="DM_SPU_VCC_CUR [eng, A]", quantity="none")
LongId	DM_DPUS_SPARE4 (description="DM_DPUS_SPARE4 [raw]", quantity="none")
LongId	DM_HKD_SPARE1 (description="DM_HKD_SPARE1 [raw]", quantity="none")
StringId	DM_CC_SYNCHRO (description="DM_CC_SYNCHRO", quantity="none")
DoubleId	DM_DECB_IGND_4 (description="DM_DECB_IGND_4 [eng, mA]", quantity="none")
LongId	DM_DET_SIM_PER (description="DM_DET_SIM_PER [raw]", quantity="none")
DoubleId	DM_DECB_IGND_3 (description="DM_DECB_IGND_3 [eng, mA]", quantity="none")

<i>StringId</i>	DM_BC_ERR_NS (description="DM_BC_ERR_NS", quantity="none")
<i>StringId</i>	DM_GC_POWER (description="DM_GC_POWER", quantity="none")
<i>DoubleId</i>	DM_DECR_IGND_2 (description="DM_DECR_IGND_2 [eng, mA]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_SP (description="BOL_TEMP_SP [eng, K]", quantity="none")
<i>StringId</i>	DP_SPUS_HK (description="DP_SPUS_HK", quantity="none")
<i>StringId</i>	DM_CC_POWER (description="DM_CC_POWER", quantity="none")
<i>DoubleId</i>	DM_DECB_TS_2_3 (description="DM_DECB_TS_2_3 [eng, K]", quantity="none")
<i>StringId</i>	DM_CR2_ST_TE (description="DM_CR2_ST_TE", quantity="none")
<i>StringId</i>	DM_HKCO_TASK_AL (description="DM_HKCO_TASK_AL", quantity="none")
<i>LongId</i>	HD_PACKET_TYPE (description="HD_PACKET_TYPE [raw]", quantity="none")
<i>LongId</i>	SPS_MEM_CNTS (description="SPS_MEM_CNTS [raw]", quantity="none")
<i>LongId</i>	DM_DECR_SR_RB_1 (description="DM_DECR_SR_RB_1 [raw]", quantity="none")
<i>LongId</i>	DM_CHOP_PID_ACC (description="DM_CHOP_PID_ACC [raw]", quantity="none")
<i>LongId</i>	DM_DECR_SR_RB_2 (description="DM_DECR_SR_RB_2 [raw]", quantity="none")
<i>StringId</i>	DM_BSPU_TR_MODE (description="DM_BSPU_TR_MODE", quantity="none")
<i>StringId</i>	DM_FPU_GR_TS_ST (description="DM_FPU_GR_TS_ST", quantity="none")
<i>StringId</i>	DM_BC_TASK_AL (description="DM_BC_TASK_AL", quantity="none")
<i>DoubleId</i>	DM_DECB_TS_2_4 (description="DM_DECB_TS_2_4 [eng, K]", quantity="none")
<i>DoubleId</i>	DM_DECR_AC_CUR (description="DM_DECR_AC_CUR [eng, mA]", quantity="none")
<i>LongId</i>	SPL_OBSID (description="SPL_OBSID [raw]", quantity="none")
<i>StringId</i>	DM_BC_LINK (description="DM_BC_LINK", quantity="none")
<i>LongId</i>	DM_BR_ERROR (description="DM_BR_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_CR1_NDS (description="DM_CR1_NDS", quantity="none")
<i>DoubleId</i>	DM_DECB_VSCP_3 (description="DM_DECB_VSCP_3 [eng, V]", quantity="none")
<i>LongId</i>	DM_DECR_RO_CO_2 (description="DM_DECR_RO_CO_2 [raw]", quantity="none")
<i>StringId</i>	DM_SW_ALIVE (description="DM_SW_ALIVE", quantity="none")

<i>StringId</i>	DM_SEQ_RUNNING (description="DM_SEQ_RUNNING", quantity="none")
<i>StringId</i>	DM_FWPC_POS_A (description="DM_FWPC_POS_A", quantity="none")
<i>DoubleId</i>	DM_DECB_VSCP_4 (description="DM_DECB_VSCP_4 [eng, V]", quantity="none")
<i>LongId</i>	DM_DECR_RO_CO_1 (description="DM_DECR_RO_CO_1 [raw]", quantity="none")
<i>StringId</i>	DM_FWPC_POS_B (description="DM_FWPC_POS_B", quantity="none")
<i>LongId</i>	DM_CC_SPARE4 (description="DM_CC_SPARE4 [raw]", quantity="none")
<i>DoubleId</i>	LAST_16BIT_TIME (description="LAST_16BIT_TIME [eng, s]", quantity="none")
<i>StringId</i>	DM_DRR_TASK_WR (description="DM_DRR_TASK_WR", quantity="none")
<i>StringId</i>	DM_DBR_TASK_AL (description="DM_DBR_TASK_AL", quantity="none")
<i>LongId</i>	DP_GEN_TM_LOST (description="DP_GEN_TM_LOST [raw]", quantity="none")
<i>StringId</i>	DM_FWPC_POWER (description="DM_FWPC_POWER", quantity="none")
<i>DoubleId</i>	DM_DECR_BR_CM_1 (description="DM_DECR_BR_CM_1 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_BR_CM_2 (description="DM_DECR_BR_CM_2 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_IGND_1 (description="DM_DECR_IGND_1 [eng, mA]", quantity="none")
<i>StringId</i>	DM_GC_DOWN (description="DM_GC_DOWN", quantity="none")
<i>DoubleId</i>	DM_DECR_VSCP_1 (description="DM_DECR_VSCP_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_DRR_ERROR (description="DM_DRR_ERROR [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_VDDD_4 (description="DM_DECB_VDDD_4 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_VSCP_2 (description="DM_DECR_VSCP_2 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECB_VDDD_3 (description="DM_DECB_VDDD_3 [eng, V]", quantity="none")
<i>LongId</i>	DM_FWPC_SPARE4 (description="DM_FWPC_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_RA_CO_3 (description="DM_DECB_RA_CO_3 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_RA_CO_4 (description="DM_DECB_RA_CO_4 [raw]", quantity="none")
<i>LongId</i>	DM_PLL_RES_HI (description="DM_PLL_RES_HI [raw]", quantity="none")

<i>LongId</i>	DM_BR_SPARE2 (description="DM_BR_SPARE2 [raw]", quantity="none")
<i>StringId</i>	DM_SEQ_OPTIONS (description="DM_SEQ_OPTIONS", quantity="none")
<i>LongId</i>	DP_COM_SPL_PACK (description="DP_COM_SPL_PACK [raw]", quantity="none")
<i>StringId</i>	DM_DBC_LINK (description="DM_DBC_LINK", quantity="none")
<i>DoubleId</i>	DM_DECB_V0BIAS3 (description="DM_DECB_V0BIAS3 [eng, V]", quantity="none")
<i>StringId</i>	DM_CR4_ST_SEL (description="DM_CR4_ST_SEL", quantity="none")
<i>StringId</i>	DM_CR4_ST_CRPOW (description="DM_CR4_ST_CRPOW", quantity="none")
<i>DoubleId</i>	DM_DECR_VDDD_2 (description="DM_DECR_VDDD_2 [eng, V]", quantity="none")
<i>StringId</i>	DM_CR1_ST_FL (description="DM_CR1_ST_FL", quantity="none")
<i>DoubleId</i>	DM_DECB_V0BIAS4 (description="DM_DECB_V0BIAS4 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_VDDD_1 (description="DM_DECR_VDDD_1 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_V0V_2 (description="DM_DECR_V0V_2 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_V0V_1 (description="DM_DECR_V0V_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_DPUS_ERROR (description="DM_DPUS_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_HKD_TASK_WR (description="DM_HKD_TASK_WR", quantity="none")
<i>LongId</i>	DM_DECB_CTRL_PA (description="DM_DECB_CTRL_PA [raw]", quantity="none")
<i>LongId</i>	SPL_SUBVERSION (description="SPL_SUBVERSION [raw]", quantity="none")
<i>LongId</i>	DM_BOL_READ_CNT (description="DM_BOL_READ_CNT [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_FLASH_V (description="DM_DECR_FLASH_V [eng, V]", quantity="none")
<i>StringId</i>	DM_HKCO_ERR_NS (description="DM_HKCO_ERR_NS", quantity="none")
<i>LongId</i>	FIRST32BIT_TIME (description="FIRST32BIT_TIME [raw]", quantity="none")
<i>StringId</i>	DM_HKD_DIAGMODE (description="DM_HKD_DIAGMODE", quantity="none")
<i>StringId</i>	DP_1553_HANDLER (description="DP_1553_HANDLER", quantity="none")
<i>StringId</i>	DM_DRC_TASK_AL (description="DM_DRC_TASK_AL", quantity="none")

<i>LongId</i>	DM_SEQ_LOOP_ID4 (description="DM_SEQ_LOOP_ID4 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF12 (description="DM_LAST_ER_BF12 [raw]", quantity="none")
<i>StringId</i>	DM_FWPC_TASK_WR (description="DM_FWPC_TASK_WR", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF13 (description="DM_LAST_ER_BF13 [raw]", quantity="none")
<i>LongId</i>	DM_FWGRAT_HALLA (description="DM_FWGRAT_HALLA [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF14 (description="DM_LAST_ER_BF14 [raw]", quantity="none")
<i>LongId</i>	DM_FWGRAT_HALLB (description="DM_FWGRAT_HALLB [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF15 (description="DM_LAST_ER_BF15 [raw]", quantity="none")
<i>LongId</i>	DM_SEQ_LOOP_ID0 (description="DM_SEQ_LOOP_ID0 [raw]", quantity="none")
<i>LongId</i>	DM_SEQ_LOOP_ID1 (description="DM_SEQ_LOOP_ID1 [raw]", quantity="none")
<i>LongId</i>	SPL_SAMP_CORR (description="SPL_SAMP_CORR [raw]", quantity="none")
<i>LongId</i>	DM_SEQ_LOOP_ID2 (description="DM_SEQ_LOOP_ID2 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF10 (description="DM_LAST_ER_BF10 [raw]", quantity="none")
<i>StringId</i>	DM_CR4_ST_HE (description="DM_CR4_ST_HE", quantity="none")
<i>LongId</i>	DM_SEQ_LOOP_ID3 (description="DM_SEQ_LOOP_ID3 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF11 (description="DM_LAST_ER_BF11 [raw]", quantity="none")
<i>StringId</i>	DM_TS_2_ST_3 (description="DM_TS_2_ST_3", quantity="none")
<i>LongId</i>	DM_GRAT_PID_ACC (description="DM_GRAT_PID_ACC [raw]", quantity="none")
<i>StringId</i>	DM_TS_2_ST_4 (description="DM_TS_2_ST_4", quantity="none")
<i>StringId</i>	DM_CC_TASK_WR (description="DM_CC_TASK_WR", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF16 (description="DM_LAST_ER_BF16 [raw]", quantity="none")
<i>StringId</i>	DM_TS_2_ST_1 (description="DM_TS_2_ST_1", quantity="none")
<i>StringId</i>	DM_TS_2_ST_2 (description="DM_TS_2_ST_2", quantity="none")
<i>StringId</i>	DM_GC_PID (description="DM_GC_PID", quantity="none")
<i>StringId</i>	DM_CR1_ST_HE (description="DM_CR1_ST_HE", quantity="none")
<i>DoubleId</i>	DM_SPU_PS_TEMP (description="DM_SPU_PS_TEMP [eng, K]", quantity="none")

<i>LongId</i>	DP_COM_DMC (description="DP_COM_DMC [raw]", quantity="none")
<i>StringId</i>	DP_OBCP_RUN (description="DP_OBCP_RUN", quantity="none")
<i>StringId</i>	DP_IRQ3_TASK (description="DP_IRQ3_TASK", quantity="none")
<i>DoubleId</i>	DM_FPU_T2_TEMP (description="DM_FPU_T2_TEMP [eng, K]", quantity="none")
<i>DoubleId</i>	DM_DECB_VWELL_4 (description="DM_DECB_VWELL_4 [eng, V]", quantity="none")
<i>LongId</i>	SID (description="SID [raw]", quantity="none")
<i>LongId</i>	SPS_PIX (description="SPS_PIX [raw]", quantity="none")
<i>LongId</i>	DM_FWSC_SPARE4 (description="DM_FWSC_SPARE4 [raw]", quantity="none")
<i>StringId</i>	DM_TS_1_ST_4 (description="DM_TS_1_ST_4", quantity="none")
<i>StringId</i>	DM_BPE_TASK_AL (description="DM_BPE_TASK_AL", quantity="none")
<i>StringId</i>	DM_TS_1_ST_3 (description="DM_TS_1_ST_3", quantity="none")
<i>StringId</i>	DM_CR3_ST_SIM (description="DM_CR3_ST_SIM", quantity="none")
<i>StringId</i>	DM_TS_1_ST_2 (description="DM_TS_1_ST_2", quantity="none")
<i>StringId</i>	DM_FPU_CH_TS_ST (description="DM_FPU_CH_TS_ST", quantity="none")
<i>DoubleId</i>	DM_DECB_VWELL_3 (description="DM_DECB_VWELL_3 [eng, V]", quantity="none")
<i>StringId</i>	DM_TS_1_ST_1 (description="DM_TS_1_ST_1", quantity="none")
<i>StringId</i>	DM_DSIM_TIME (description="DM_DSIM_TIME", quantity="none")
<i>StringId</i>	DM_DBR_ERR_NS (description="DM_DBR_ERR_NS", quantity="none")
<i>StringId</i>	SPS_DMC_LINK (description="SPS_DMC_LINK", quantity="none")
<i>LongId</i>	DM_DET_SIM_STAT (description="DM_DET_SIM_STAT [raw]", quantity="none")
<i>LongId</i>	DP_COM_DMC_PACK (description="DP_COM_DMC_PACK [raw]", quantity="none")
<i>LongId</i>	DM_DECR_CTRL_PA (description="DM_DECR_CTRL_PA [raw]", quantity="none")
<i>StringId</i>	DM_CR4_ST_FL (description="DM_CR4_ST_FL", quantity="none")
<i>StringId</i>	DM_CR2_NDS (description="DM_CR2_NDS", quantity="none")
<i>DoubleId</i>	DM_DECR_TS_1_2 (description="DM_DECR_TS_1_2 [eng, K]", quantity="none")
<i>DoubleId</i>	DM_DECR_TS_1_1 (description="DM_DECR_TS_1_1 [eng, K]", quantity="none")
<i>LongId</i>	HD_APIID (description="HD_APIID [raw]", quantity="none")
<i>LongId</i>	DM_DSIM_SPARE7 (description="DM_DSIM_SPARE7 [raw]", quantity="none")

<i>StringId</i>	DP_STABLE_DEC (description="DP_STABLE_DEC", quantity="none")
<i>DoubleId</i>	DM_DECB_VSS_3 (description="DM_DECB_VSS_3 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECB_VSS_4 (description="DM_DECB_VSS_4 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_VWELL_2 (description="DM_DECR_VWELL_2 [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ERR_ID (description="DM_LAST_ERR_ID [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_VWELL_1 (description="DM_DECR_VWELL_1 [eng, V]", quantity="none")
<i>StringId</i>	DM_CR3_ST_CRPOW (description="DM_CR3_ST_CRPOW", quantity="none")
<i>LongId</i>	SPS_LLC_ERROR (description="SPS_LLC_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_RED_ENC_PAC (description="DM_RED_ENC_PAC [raw]", quantity="none")
<i>StringId</i>	DM_CS2C_DOWN (description="DM_CS2C_DOWN", quantity="none")
<i>StringId</i>	DP_SPL_LINK (description="DP_SPL_LINK", quantity="none")
<i>LongId</i>	DM_IRS_CNT (description="DM_IRS_CNT [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_TS_1_4 (description="DM_DECB_TS_1_4 [eng, K]", quantity="none")
<i>LongId</i>	DM_SW_SPARE5 (description="DM_SW_SPARE5 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_TS_1_3 (description="DM_DECB_TS_1_3 [eng, K]", quantity="none")
<i>LongId</i>	DP_COM_SPS_NACK (description="DP_COM_SPS_NACK [raw]", quantity="none")
<i>StringId</i>	DM_BR_TASK_WR (description="DM_BR_TASK_WR", quantity="none")
<i>StringId</i>	DM_DBR_SENDING (description="DM_DBR_SENDING", quantity="none")
<i>LongId</i>	DP_COM_SPUS (description="DP_COM_SPUS [raw]", quantity="none")
<i>StringId</i>	DM_CS1C_POWER (description="DM_CS1C_POWER", quantity="none")
<i>StringId</i>	DM_DPUR_TASK_WR (description="DM_DPUR_TASK_WR", quantity="none")
<i>LongId</i>	DP_COM_SPUL (description="DP_COM_SPUL [raw]", quantity="none")
<i>StringId</i>	DM_GC_SYNCHRO (description="DM_GC_SYNCHRO", quantity="none")
<i>StringId</i>	DM_SEQ_TASK_AL (description="DM_SEQ_TASK_AL", quantity="none")

<i>DoubleId</i>	BOL_TEMP_SP_SWT (description="BOL_TEMP_SP_SWT [eng, K]", quantity="none")
<i>LongId</i>	DM_SEQ_STATUS (description="DM_SEQ_STATUS [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_ISS_1 (description="DM_DECR_ISS_1 [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECR_ISS_2 (description="DM_DECR_ISS_2 [eng, mA]", quantity="none")
<i>LongId</i>	DM_FW_PHOT_CTRL (description="DM_FW_PHOT_CTRL [raw]", quantity="none")
<i>StringId</i>	DM_CC_PID (description="DM_CC_PID", quantity="none")
<i>StringId</i>	DM_GC_DEGRADE (description="DM_GC_DEGRADE", quantity="none")
<i>StringId</i>	DM_CS1C_DOWN (description="DM_CS1C_DOWN", quantity="none")
<i>StringId</i>	DP_COUNTER_SPS (description="DP_COUNTER_SPS", quantity="none")
<i>StringId</i>	DM_BR_TASK_AL (description="DM_BR_TASK_AL", quantity="none")
<i>LongId</i>	DM_GC_LL_SC (description="DM_GC_LL_SC [raw]", quantity="none")
<i>LongId</i>	DM_DPUR_SPARE4 (description="DM_DPUR_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DP_COM_REC_DPU (description="DP_COM_REC_DPU [raw]", quantity="none")
<i>StringId</i>	DM_DPUS_TASK_WR (description="DM_DPUS_TASK_WR", quantity="none")
<i>StringId</i>	DM_SEQ_IDLE (description="DM_SEQ_IDLE", quantity="none")
<i>LongId</i>	DM_FPU_T_SEN_ST (description="DM_FPU_T_SEN_ST [raw]", quantity="none")
<i>StringId</i>	DM_HKD_TASK_AL (description="DM_HKD_TASK_AL", quantity="none")
<i>LongId</i>	DM_BOL_CTRL_STA (description="DM_BOL_CTRL_STA [raw]", quantity="none")
<i>LongId</i>	DM_CR2_ST_SP1 (description="DM_CR2_ST_SP1 [raw]", quantity="none")
<i>LongId</i>	DM_CR2_ST_SP2 (description="DM_CR2_ST_SP2 [raw]", quantity="none")
<i>StringId</i>	DM_CR3_ST_POW (description="DM_CR3_ST_POW", quantity="none")
<i>StringId</i>	DM_CS2C_POWER (description="DM_CS2C_POWER", quantity="none")
<i>LongId</i>	DM_SEQ_POINTER (description="DM_SEQ_POINTER [raw]", quantity="none")
<i>LongId</i>	DM_DPU_SEN_STAT (description="DM_DPU_SEN_STAT [raw]", quantity="none")
<i>StringId</i>	DM_CR1_ST_POW (description="DM_CR1_ST_POW", quantity="none")

<i>LongId</i>	DM_CR4_ST_SP1 (description="DM_CR4_ST_SP1 [raw]", quantity="none")
<i>LongId</i>	DM_CR4_ST_SP2 (description="DM_CR4_ST_SP2 [raw]", quantity="none")
<i>LongId</i>	DM_SW_GLOBAL_ST (description="DM_SW_GLOBAL_ST [raw]", quantity="none")
<i>DoubleId</i>	DP_T (description="DP_T [eng, degC]", quantity="none")
<i>LongId</i>	DM_DECB_REC_PAC (description="DM_DECB_REC_PAC [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_6 (description="BOL_PWR_ANA_P_6 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_7 (description="BOL_PWR_ANA_P_7 [eng, V]", quantity="none")
<i>StringId</i>	DP_BURST_MODE (description="DP_BURST_MODE", quantity="none")
<i>StringId</i>	DM_FPU_S2_TS_ST (description="DM_FPU_S2_TS_ST", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_2 (description="BOL_PWR_ANA_P_2 [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF5 (description="DM_LAST_ER_BF5 [raw]", quantity="none")
<i>LongId</i>	SPS_SUBVERSION (description="SPS_SUBVERSION [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF6 (description="DM_LAST_ER_BF6 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_3 (description="BOL_PWR_ANA_P_3 [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF3 (description="DM_LAST_ER_BF3 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_4 (description="BOL_PWR_ANA_P_4 [eng, V]", quantity="none")
<i>StringId</i>	DM_CR3_ST_CUR (description="DM_CR3_ST_CUR", quantity="none")
<i>LongId</i>	SPL_PIX (description="SPL_PIX [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF4 (description="DM_LAST_ER_BF4 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_5 (description="BOL_PWR_ANA_P_5 [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF9 (description="DM_LAST_ER_BF9 [raw]", quantity="none")
<i>LongId</i>	DM_BOL_REC_STAT (description="DM_BOL_REC_STAT [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF7 (description="DM_LAST_ER_BF7 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_1 (description="BOL_PWR_ANA_P_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF8 (description="DM_LAST_ER_BF8 [raw]", quantity="none")

<i>StringId</i>	DM_DSIM_BOL_SIM (description="DM_DSIM_BOL_SIM", quantity="none")
<i>LongId</i>	SPL_MAINT_RAMPS (description="SPL_MAINT_RAMPS [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_ISS_3 (description="DM_DECB_ISS_3 [eng, mA]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF1 (description="DM_LAST_ER_BF1 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_ISS_4 (description="DM_DECB_ISS_4 [eng, mA]", quantity="none")
<i>StringId</i>	DP_EV_BOL_BIAS (description="DP_EV_BOL_BIAS", quantity="none")
<i>LongId</i>	DM_HK_DIAG_STAT (description="DM_HK_DIAG_STAT [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF2 (description="DM_LAST_ER_BF2 [raw]", quantity="none")
<i>StringId</i>	DM_CC_UP (description="DM_CC_UP", quantity="none")
<i>StringId</i>	DP_EVENT_DEC (description="DP_EVENT_DEC", quantity="none")
<i>LongId</i>	DM_DPUR_ERROR (description="DM_DPUR_ERROR [raw]", quantity="none")
<i>StringId</i>	DP_SPS_LINK (description="DP_SPS_LINK", quantity="none")
<i>LongId</i>	DM_FWPC_SPARE1A (description="DM_FWPC_SPARE1A [raw]", quantity="none")
<i>LongId</i>	DM_FWPC_SPARE1B (description="DM_FWPC_SPARE1B [raw]", quantity="none")
<i>StringId</i>	DM_CR3_NDS (description="DM_CR3_NDS", quantity="none")
<i>StringId</i>	DM_GC_COMMUT (description="DM_GC_COMMUT", quantity="none")
<i>LongId</i>	DM_GRAT_CUR_POS (description="DM_GRAT_CUR_POS [raw]", quantity="none")
<i>StringId</i>	DM_RPE_ERR_NS (description="DM_RPE_ERR_NS", quantity="none")
<i>LongId</i>	DM_OBSID (description="DM_OBSID [raw]", quantity="none")
<i>StringId</i>	DM_CR4_ST_TE (description="DM_CR4_ST_TE", quantity="none")
<i>DoubleId</i>	DM_DECR_HEAT_C (description="DM_DECR_HEAT_C [eng, mA]", quantity="none")
<i>LongId</i>	DM_ISR_SPARE1 (description="DM_ISR_SPARE1 [raw]", quantity="none")
<i>StringId</i>	DM_FWPC_POSC_A (description="DM_FWPC_POSC_A", quantity="none")
<i>StringId</i>	DM_FWPC_POSC_B (description="DM_FWPC_POSC_B", quantity="none")
<i>LongId</i>	DM_ISR_SPARE2 (description="DM_ISR_SPARE2 [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_T_WE (description="DP_EV_BOL_T_WE", quantity="none")

<i>StringId</i>	DM_DRC_TASK_WR (description="DM_DRC_TASK_WR", quantity="none")
<i>DoubleId</i>	DM_DECR_FLASH_C (description="DM_DECR_FLASH_C [eng, mA]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_5 (description="BOL_PWR_DIG_5 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_6 (description="BOL_PWR_DIG_6 [eng, V]", quantity="none")
<i>StringId</i>	DM_DPUS_LINK (description="DM_DPUS_LINK", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_7 (description="BOL_PWR_DIG_7 [eng, V]", quantity="none")
<i>LongId</i>	DM_BC_SPARE4 (description="DM_BC_SPARE4 [raw]", quantity="none")
<i>StringId</i>	DM_FWPC_ERR_NS (description="DM_FWPC_ERR_NS", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_1 (description="BOL_PWR_DIG_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_2 (description="BOL_PWR_DIG_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_3 (description="BOL_PWR_DIG_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_4 (description="BOL_PWR_DIG_4 [eng, V]", quantity="none")
<i>StringId</i>	DM_DBR_SIM_TIME (description="DM_DBR_SIM_TIME", quantity="none")
<i>StringId</i>	DM_CR3_ST_TE (description="DM_CR3_ST_TE", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_RO (description="DP_EV_BOL_I_RO", quantity="none")
<i>StringId</i>	DM_CS1C_TASK_AL (description="DM_CS1C_TASK_AL", quantity="none")
<i>DoubleId</i>	DM_DECR_HEAT_V (description="DM_DECR_HEAT_V [eng, V]", quantity="none")
<i>StringId</i>	DM_SW_COPY_OBS (description="DM_SW_COPY_OBS", quantity="none")
<i>LongId</i>	SPS_SAMP_CORR (description="SPS_SAMP_CORR [raw]", quantity="none")
<i>StringId</i>	DM_SW_ERR (description="DM_SW_ERR", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU_ST (description="BOL_TEMP_FPU_ST [eng, K]", quantity="none")
<i>StringId</i>	DM_CR1_ST_RA (description="DM_CR1_ST_RA", quantity="none")
<i>StringId</i>	DM_BR_SENDING (description="DM_BR_SENDING", quantity="none")
<i>StringId</i>	DM_DSIM_R_SIMUL (description="DM_DSIM_R_SIMUL", quantity="none")

<i>DoubleId</i>	DP_VOL_15P (description="DP_VOL_15P [eng, V]", quantity="none")
<i>StringId</i>	DM_FPU_CS_TS_ST (description="DM_FPU_CS_TS_ST", quantity="none")
<i>DoubleId</i>	DM_FW_SPEC_TEMP (description="DM_FW_SPEC_TEMP [eng, K]", quantity="none")
<i>DoubleId</i>	DP_VOL_15N (description="DP_VOL_15N [eng, V]", quantity="none")
<i>StringId</i>	DM_BR_LINK (description="DM_BR_LINK", quantity="none")
<i>StringId</i>	DM_HKCO_TASK_WR (description="DM_HKCO_TASK_WR", quantity="none")
<i>LongId</i>	SPS_CI (description="SPS_CI [raw]", quantity="none")
<i>StringId</i>	DM_CR4_ST_RA (description="DM_CR4_ST_RA", quantity="none")
<i>DoubleId</i>	DM_DECR_DCDCP15 (description="DM_DECR_DCDCP15 [eng, mA]", quantity="none")
<i>LongId</i>	DM_ISR_STAT (description="DM_ISR_STAT [raw]", quantity="none")
<i>LongId</i>	HD_LENGTH (description="HD_LENGTH [raw]", quantity="none")
<i>LongId</i>	DP_COM_SPS_PACK (description="DP_COM_SPS_PACK [raw]", quantity="none")
<i>LongId</i>	DP_1_8_REJECTED (description="DP_1_8_REJECTED [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_ZB_CM_1 (description="DM_DECR_ZB_CM_1 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_ZB_CM_2 (description="DM_DECR_ZB_CM_2 [eng, V]", quantity="none")
<i>LongId</i>	DM_FWSC_SPARE1A (description="DM_FWSC_SPARE1A [raw]", quantity="none")
<i>LongId</i>	DM_CS2C_ERROR (description="DM_CS2C_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_CR1_ST_CRPOW (description="DM_CR1_ST_CRPOW", quantity="none")
<i>LongId</i>	DM_SEQ_ERROR (description="DM_SEQ_ERROR [raw]", quantity="none")
<i>StringId</i>	DP_1355_LINK (description="DP_1355_LINK", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU1 (description="BOL_TEMP_FPU1 [eng, K]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU2 (description="BOL_TEMP_FPU2 [eng, K]", quantity="none")
<i>LongId</i>	DM_DECR_RA_CO_1 (description="DM_DECR_RA_CO_1 [raw]", quantity="none")
<i>LongId</i>	SPS_PAR_MONITOR (description="SPS_PAR_MONITOR [raw]", quantity="none")
<i>LongId</i>	DM_GRAT_PID_ERR (description="DM_GRAT_PID_ERR [raw]", quantity="none")
<i>LongId</i>	DP_1_2_REJECTED (description="DP_1_2_REJECTED [raw]", quantity="none")

<i>LongId</i>	DM_DECR_RA_CO_2 (description="DM_DECR_RA_CO_2 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_VGND_2 (description="DM_DECR_VGND_2 [eng, V]", quantity="none")
<i>StringId</i>	DM_BPE_TASK_WR (description="DM_BPE_TASK_WR", quantity="none")
<i>DoubleId</i>	DM_DECB_FLASH_V (description="DM_DECB_FLASH_V [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_VGND_1 (description="DM_DECR_VGND_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_FWPC_ERROR (description="DM_FWPC_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_CR2_ST_CUR (description="DM_CR2_ST_CUR", quantity="none")
<i>DoubleId</i>	DM_GRAT_OUTPUT (description="DM_GRAT_OUTPUT [eng, mA]", quantity="none")
<i>LongId</i>	DM_GRAT_CTRL_ST (description="DM_GRAT_CTRL_ST [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_4 (description="BOL_PWR_ANA_N_4 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_5 (description="BOL_PWR_ANA_N_5 [eng, V]", quantity="none")
<i>LongId</i>	DM_SW_ERROR (description="DM_SW_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_DECB_SR_RB_3 (description="DM_DECB_SR_RB_3 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_6 (description="BOL_PWR_ANA_N_6 [eng, V]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT10 (description="DM_CUSTOM_ENT10 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_7 (description="BOL_PWR_ANA_N_7 [eng, V]", quantity="none")
<i>StringId</i>	DM_CR3_ST_RA (description="DM_CR3_ST_RA", quantity="none")
<i>LongId</i>	DM_DECB_SR_RB_4 (description="DM_DECB_SR_RB_4 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_1 (description="BOL_PWR_ANA_N_1 [eng, V]", quantity="none")
<i>StringId</i>	SPL_DMC_ERROR (description="SPL_DMC_ERROR", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_2 (description="BOL_PWR_ANA_N_2 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_SPU_SWL_TEMP (description="DM_SPU_SWL_TEMP [eng, K]", quantity="none")
<i>LongId</i>	DM_HK_DIAG_PERI (description="DM_HK_DIAG_PERI [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_3 (description="BOL_PWR_ANA_N_3 [eng, V]", quantity="none")

<i>StringId</i>	DM_CR4_NDS (description="DM_CR4_NDS", quantity="none")
<i>LongId</i>	DM_FWSC_SPARE1B (description="DM_FWSC_SPARE1B [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_FLASH_C (description="DM_DECB_FLASH_C [eng, mA]", quantity="none")
<i>StringId</i>	DM_CR1_ST_TE (description="DM_CR1_ST_TE", quantity="none")
<i>DoubleId</i>	DP_VOL_25P (description="DP_VOL_25P [eng, V]", quantity="none")
<i>DoubleId</i>	SPL_CPUWORKLOAD (description="SPL_CPUWORKLOAD [eng, %]", quantity="none")
<i>StringId</i>	DP_SPUS_LINK (description="DP_SPUS_LINK", quantity="none")
<i>LongId</i>	DM_SEQ_SPARE2 (description="DM_SEQ_SPARE2 [raw]", quantity="none")
<i>DoubleId</i>	DP_VOL_5P (description="DP_VOL_5P [eng, V]", quantity="none")
<i>LongId</i>	DM_DPU_REC_PAC (description="DM_DPU_REC_PAC [raw]", quantity="none")
<i>StringId</i>	DP_COUNTER_SPL (description="DP_COUNTER_SPL", quantity="none")
<i>LongId</i>	DM_SEQ_SPARE1 (description="DM_SEQ_SPARE1 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_DCDC_P5 (description="DM_DECB_DCDC_P5 [eng, mA]", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_HEA (description="DP_EV_BOL_I_HEA", quantity="none")
<i>StringId</i>	DM_CR2_ST_RA (description="DM_CR2_ST_RA", quantity="none")
<i>DoubleId</i>	DM_DECR_IDDA_1 (description="DM_DECR_IDDA_1 [eng, mA]", quantity="none")
<i>StringId</i>	DP_COUNTER_PHOT (description="DP_COUNTER_PHOT", quantity="none")
<i>LongId</i>	DM_CR3_ST_SP2 (description="DM_CR3_ST_SP2 [raw]", quantity="none")
<i>StringId</i>	DM_DSIM_ERR_NS (description="DM_DSIM_ERR_NS", quantity="none")
<i>StringId</i>	DM_CR4_ST_SIM (description="DM_CR4_ST_SIM", quantity="none")
<i>StringId</i>	DM_CR2_ST_POW (description="DM_CR2_ST_POW", quantity="none")
<i>LongId</i>	DM_DECR_REC_PAC (description="DM_DECR_REC_PAC [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_IDDA_3 (description="DM_DECB_IDDA_3 [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECB_DCDCP15 (description="DM_DECB_DCDCP15 [eng, mA]", quantity="none")
<i>LongId</i>	DP_SPUS_LINK_DE (description="DP_SPUS_LINK_DE [raw]", quantity="none")

<i>DoubleId</i>	DM_DECB_IDDA_4 (description="DM_DECB_IDDA_4 [eng, mA]", quantity="none")
<i>StringId</i>	DM_CC_LOOP (description="DM_CC_LOOP", quantity="none")
<i>DoubleId</i>	DM_DECR_IDDA_2 (description="DM_DECR_IDDA_2 [eng, mA]", quantity="none")
<i>LongId</i>	SPS_RCX (description="SPS_RCX [raw]", quantity="none")
<i>LongId</i>	DM_BC_ERROR (description="DM_BC_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_DSIM_TASK_AL (description="DM_DSIM_TASK_AL", quantity="none")
<i>LongId</i>	DM_DECB_RO_CO_4 (description="DM_DECB_RO_CO_4 [raw]", quantity="none")
<i>LongId</i>	DM_CR3_ST_SP1 (description="DM_CR3_ST_SP1 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_RO_CO_3 (description="DM_DECB_RO_CO_3 [raw]", quantity="none")
<i>DoubleId</i>	DM_CAL_SRC_TEMP (description="DM_CAL_SRC_TEMP [eng, K]", quantity="none")
<i>DoubleId</i>	DM_CS1_OUTPUT (description="DM_CS1_OUTPUT [eng, V]", quantity="none")
<i>StringId</i>	DM_DRR_SENDING (description="DM_DRR_SENDING", quantity="none")
<i>StringId</i>	DM_DRC_LINK (description="DM_DRC_LINK", quantity="none")
<i>StringId</i>	DP_SPUL_CMD (description="DP_SPUL_CMD", quantity="none")
<i>LongId</i>	DM_BLUE_PAC_ENC (description="DM_BLUE_PAC_ENC [raw]", quantity="none")
<i>LongId</i>	SPL_RCX (description="SPL_RCX [raw]", quantity="none")
<i>LongId</i>	DM_HK_CTRL_STAT (description="DM_HK_CTRL_STAT [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_T_FPU (description="DP_EV_BOL_T_FPU", quantity="none")
<i>LongId</i>	DM_PM_DF_IND (description="DM_PM_DF_IND [raw]", quantity="none")
<i>LongId</i>	DM_HKCO_ERROR (description="DM_HKCO_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_DECR_DCDC_T2 (description="DM_DECR_DCDC_T2 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_VGND_3 (description="DM_DECB_VGND_3 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_DCDC_T1 (description="DM_DECR_DCDC_T1 [eng, K]", quantity="none")
<i>DoubleId</i>	DM_DECB_VGND_4 (description="DM_DECB_VGND_4 [eng, V]", quantity="none")
<i>StringId</i>	DM_CS2C_PID (description="DM_CS2C_PID", quantity="none")
<i>LongId</i>	DM_DPU_REC_STAT (description="DM_DPU_REC_STAT [raw]", quantity="none")
<i>StringId</i>	DP_OBCP_MANAGER (description="DP_OBCP_MANAGER", quantity="none")

<i>LongId</i>	HD_SPARE_3 (description="HD_SPARE_3 [raw]", quantity="none")
<i>StringId</i>	DP_DEC_LINK (description="DP_DEC_LINK", quantity="none")
<i>LongId</i>	SPL_LLC_ERROR (description="SPL_LLC_ERROR [raw]", quantity="none")
<i>LongId</i>	HD_VERSION_NUMB (description="HD_VERSION_NUMB [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_DCDCN15 (description="DM_DECR_DCDCN15 [eng, mA]", quantity="none")
<i>LongId</i>	DM_DBR_SPARE2 (description="DM_DBR_SPARE2 [raw]", quantity="none")
<i>LongId</i>	DM_GRAT_TARGET (description="DM_GRAT_TARGET [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_VSS_2 (description="DM_DECR_VSS_2 [eng, V]", quantity="none")
<i>LongId</i>	DM_HKCO_SPARE5 (description="DM_HKCO_SPARE5 [raw]", quantity="none")
<i>StringId</i>	DM_CR2_ST_CS (description="DM_CR2_ST_CS", quantity="none")
<i>LongId</i>	HD_SPARE_1 (description="HD_SPARE_1 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_CL_RO_4 (description="DM_DECB_CL_RO_4 [raw]", quantity="none")
<i>LongId</i>	HD_SPARE_2 (description="HD_SPARE_2 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_CL_RO_3 (description="DM_DECB_CL_RO_3 [raw]", quantity="none")
<i>LongId</i>	SPS_VID (description="SPS_VID [raw]", quantity="none")
<i>StringId</i>	DM_FWSC_TASK_WR (description="DM_FWSC_TASK_WR", quantity="none")
<i>DoubleId</i>	DM_DECR_VSS_1 (description="DM_DECR_VSS_1 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_IDDD_2 (description="DM_DECR_IDDD_2 [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECR_IDDD_1 (description="DM_DECR_IDDD_1 [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECB_IDDD_3 (description="DM_DECB_IDDD_3 [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECB_REF_0V4 (description="DM_DECB_REF_0V4 [eng, V]", quantity="none")
<i>LongId</i>	DM_OBT_COUNT (description="DM_OBT_COUNT [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_REF_0V3 (description="DM_DECB_REF_0V3 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECB_IDDD_4 (description="DM_DECB_IDDD_4 [eng, mA]", quantity="none")
<i>StringId</i>	DM_FPU_FWP_TS_S (description="DM_FPU_FWP_TS_S", quantity="none")
<i>StringId</i>	DP_SPUS_CMD (description="DP_SPUS_CMD", quantity="none")
<i>StringId</i>	DM_GC_LL_LOCKED (description="DM_GC_LL_LOCKED", quantity="none")

<i>LongId</i>	DM_DSIM_SPARE1A (description="DM_DSIM_SPARE1A [raw]", quantity="none")
<i>LongId</i>	DM_CS2_CTRL_STA (description="DM_CS2_CTRL_STA [raw]", quantity="none")
<i>DoubleId</i>	DM_DSP_TEMP (description="DM_DSP_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_BR_SIM_TIME (description="DM_BR_SIM_TIME", quantity="none")
<i>StringId</i>	DM_GC_LL_MOVING (description="DM_GC_LL_MOVING", quantity="none")
<i>LongId</i>	DM_DSIM_SPARE1B (description="DM_DSIM_SPARE1B [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_DCDCP5 (description="DM_DECR_DCDCP5 [eng, mA]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_4 (description="BOL_TEMP_R_4 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_5 (description="BOL_TEMP_R_5 [eng, degC]", quantity="none")
<i>LongId</i>	DM_MIM_ST (description="DM_MIM_ST [raw]", quantity="none")
<i>LongId</i>	DM_DSIM_ERROR (description="DM_DSIM_ERROR [raw]", quantity="none")
<i>StringId</i>	SPS_DMC_ERROR (description="SPS_DMC_ERROR", quantity="none")
<i>LongId</i>	DM_GC_ERROR (description="DM_GC_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_CC_ERROR (description="DM_CC_ERROR [raw]", quantity="none")
<i>StringId</i>	DP_SPUL_LINK (description="DP_SPUL_LINK", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_1 (description="BOL_TEMP_R_1 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_2 (description="BOL_TEMP_R_2 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_3 (description="BOL_TEMP_R_3 [eng, degC]", quantity="none")
<i>StringId</i>	DM_CS2C_UP (description="DM_CS2C_UP", quantity="none")
<i>StringId</i>	DM_CR4_ST_CUR (description="DM_CR4_ST_CUR", quantity="none")
<i>StringId</i>	DM_DSIM_TASK_WR (description="DM_DSIM_TASK_WR", quantity="none")
<i>StringId</i>	DM_DPUR_TASK_AL (description="DM_DPUR_TASK_AL", quantity="none")
<i>LongId</i>	SPS_REAL (description="SPS_REAL [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_B_3 (description="BOL_TEMP_B_3 [eng, degC]", quantity="none")
<i>LongId</i>	DM_CHOP_SETPOIN (description="DM_CHOP_SETPOIN [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_B_2 (description="BOL_TEMP_B_2 [eng, degC]", quantity="none")

<i>DoubleId</i>	BOL_TEMP_B_1 (description="BOL_TEMP_B_1 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_DAQ (description="BOL_TEMP_DAQ [eng, degC]", quantity="none")
<i>StringId</i>	DP_TEST_MODE (description="DP_TEST_MODE", quantity="none")
<i>LongId</i>	DM_DECR_CL_RO_1 (description="DM_DECR_CL_RO_1 [raw]", quantity="none")
<i>LongId</i>	DM_CHOP_CUR_POS (description="DM_CHOP_CUR_POS [raw]", quantity="none")
<i>LongId</i>	DM_DECR_CL_RO_2 (description="DM_DECR_CL_RO_2 [raw]", quantity="none")
<i>LongId</i>	DM_CS2C_SPARE1B (description="DM_CS2C_SPARE1B [raw]", quantity="none")
<i>StringId</i>	DM_RPE_TASK_AL (description="DM_RPE_TASK_AL", quantity="none")
<i>DoubleId</i>	DM_FW_PHOT_TEMP (description="DM_FW_PHOT_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DP_BLUE_SCIENCE (description="DP_BLUE_SCIENCE", quantity="none")
<i>StringId</i>	DP_UNIT (description="DP_UNIT", quantity="none")
<i>StringId</i>	DP_DMC_CMD (description="DP_DMC_CMD", quantity="none")
<i>LongId</i>	DM_DECB_DCDC_T4 (description="DM_DECB_DCDC_T4 [raw]", quantity="none")
<i>StringId</i>	DM_CC_COMMUT (description="DM_CC_COMMUT", quantity="none")
<i>LongId</i>	DM_TIME_2 (description="DM_TIME_2 [raw]", quantity="none")
<i>LongId</i>	DM_TIME_1 (description="DM_TIME_1 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_ZB_CM_4 (description="DM_DECB_ZB_CM_4 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECB_ZB_CM_3 (description="DM_DECB_ZB_CM_3 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECB_HEAT_V (description="DM_DECB_HEAT_V [eng, V]", quantity="none")
<i>LongId</i>	DM_CS1C_SPARE1 (description="DM_CS1C_SPARE1 [raw]", quantity="none")
<i>LongId</i>	DP_SPUS_LINK_PE (description="DP_SPUS_LINK_PE [raw]", quantity="none")
<i>LongId</i>	DM_CS1C_ERROR (description="DM_CS1C_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_CS1C_SPARE4 (description="DM_CS1C_SPARE4 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_DCDC_T3 (description="DM_DECB_DCDC_T3 [eng, K]", quantity="none")
<i>LongId</i>	DM_PM_SF_IND (description="DM_PM_SF_IND [raw]", quantity="none")
<i>LongId</i>	DM_BPE_ERROR (description="DM_BPE_ERROR [raw]", quantity="none")

<i>StringId</i>	DM_GC_ERR_NS (description="DM_GC_ERR_NS", quantity="none")
<i>StringId</i>	DM_CS2C_TASK_WR (description="DM_CS2C_TASK_WR", quantity="none")
<i>StringId</i>	DM_CR4_ST_POW (description="DM_CR4_ST_POW", quantity="none")
<i>DoubleId</i>	BOL_TEMP_EV (description="BOL_TEMP_EV [eng, K]", quantity="none")
<i>DoubleId</i>	DM_DECB_DCDCN15 (description="DM_DECB_DCDCN15 [eng, mA]", quantity="none")
<i>StringId</i>	DM_CR2_ST_SIM (description="DM_CR2_ST_SIM", quantity="none")
<i>DoubleId</i>	DM_DECR_VCAN2_2 (description="DM_DECR_VCAN2_2 [eng, V]", quantity="none")
<i>StringId</i>	DM_DPUS_ERR_NS (description="DM_DPUS_ERR_NS", quantity="none")
<i>DoubleId</i>	DM_DECR_VCAN2_1 (description="DM_DECR_VCAN2_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_CR1_ST_SP2 (description="DM_CR1_ST_SP2 [raw]", quantity="none")
<i>StringId</i>	DM_FWPH_CUR_POS (description="DM_FWPH_CUR_POS", quantity="none")
<i>LongId</i>	DM_CR1_ST_SP1 (description="DM_CR1_ST_SP1 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_V0V_4 (description="DM_DECB_V0V_4 [eng, V]", quantity="none")
<i>StringId</i>	DP_STABLE_SPS (description="DP_STABLE_SPS", quantity="none")
<i>StringId</i>	DM_CS2C_SYNCHRO (description="DM_CS2C_SYNCHRO", quantity="none")
<i>StringId</i>	DM_CR2_ST_FL (description="DM_CR2_ST_FL", quantity="none")
<i>StringId</i>	DM_FWSC_MOVING (description="DM_FWSC_MOVING", quantity="none")
<i>DoubleId</i>	DM_DECB_HEAT_C (description="DM_DECB_HEAT_C [eng, mA]", quantity="none")
<i>LongId</i>	DM_CHOP_MAX_DIT (description="DM_CHOP_MAX_DIT [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_V0V_3 (description="DM_DECB_V0V_3 [eng, V]", quantity="none")
<i>StringId</i>	DM_ISR_SYNC_RES (description="DM_ISR_SYNC_RES", quantity="none")
<i>LongId</i>	DM_DECB_CR_ST_3 (description="DM_DECB_CR_ST_3 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_CR_ST_4 (description="DM_DECB_CR_ST_4 [raw]", quantity="none")
<i>LongId</i>	SPL_PAR_MONITOR (description="SPL_PAR_MONITOR [raw]", quantity="none")

<i>LongId</i>	DM_RPE_ERROR (description="DM_RPE_ERROR [raw]", quantity="none")
<i>DoubleId</i>	DM_PSC_V2 (description="DM_PSC_V2 [eng, mA]", quantity="none")
<i>StringId</i>	DM_GC_UP (description="DM_GC_UP", quantity="none")
<i>DoubleId</i>	DM_PSC_V1 (description="DM_PSC_V1 [eng, A]", quantity="none")
<i>DoubleId</i>	DM_PSC_V4 (description="DM_PSC_V4 [eng, A]", quantity="none")
<i>StringId</i>	DP_EEPROM_PROT (description="DP_EEPROM_PROT", quantity="none")
<i>DoubleId</i>	DM_PSC_V3 (description="DM_PSC_V3 [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECB_VCAN2_3 (description="DM_DECB_VCAN2_3 [eng, V]", quantity="none")
<i>StringId</i>	DM_HKD_ERR_NS (description="DM_HKD_ERR_NS", quantity="none")
<i>StringId</i>	DM_FWPC_SEARCHB (description="DM_FWPC_SEARCHB", quantity="none")
<i>DoubleId</i>	DM_DECB_VCAN2_4 (description="DM_DECB_VCAN2_4 [eng, V]", quantity="none")
<i>StringId</i>	DM_FWPC_SEARCHA (description="DM_FWPC_SEARCHA", quantity="none")
<i>DoubleId</i>	DM_REF_VOLT_0V (description="DM_REF_VOLT_0V [eng, V]", quantity="none")
<i>StringId</i>	DM_FPU_S1_TS_ST (description="DM_FPU_S1_TS_ST", quantity="none")
<i>DoubleId</i>	DM_CPU_LOAD (description="DM_CPU_LOAD [eng, %]", quantity="none")
<i>LongId</i>	DM_BBID (description="DM_BBID [raw]", quantity="none")
<i>StringId</i>	DP_STABLE_SPL (description="DP_STABLE_SPL", quantity="none")
<i>StringId</i>	DM_DPUR_ERR_NS (description="DM_DPUR_ERR_NS", quantity="none")
<i>StringId</i>	DM_FPU_FWS_TS_S (description="DM_FPU_FWS_TS_S", quantity="none")
<i>StringId</i>	DM_GC_HOM_COMP (description="DM_GC_HOM_COMP", quantity="none")
<i>LongId</i>	DM_SEQ_LABEL (description="DM_SEQ_LABEL [raw]", quantity="none")
<i>DoubleId</i>	DM_FPU_T1_TEMP (description="DM_FPU_T1_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_CR1_ST_CUR (description="DM_CR1_ST_CUR", quantity="none")
<i>LongId</i>	SPL_VID (description="SPL_VID [raw]", quantity="none")
<i>LongId</i>	DM_BOL_CTRL_PAC (description="DM_BOL_CTRL_PAC [raw]", quantity="none")

<i>LongId</i>	DM_BLUE_ENC_PAC (description="DM_BLUE_ENC_PAC [raw]", quantity="none")
<i>LongId</i>	DP_SPUL_LINK_DE (description="DP_SPUL_LINK_DE [raw]", quantity="none")
<i>DoubleId</i>	DM_SPU_VP_CUR (description="DM_SPU_VP_CUR [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECR_REF_0V1 (description="DM_DECR_REF_0V1 [eng, V]", quantity="none")
<i>StringId</i>	DM_DSIM_B_SIMUL (description="DM_DSIM_B_SIMUL", quantity="none")
<i>DoubleId</i>	DM_DECR_REF_0V2 (description="DM_DECR_REF_0V2 [eng, V]", quantity="none")
<i>LongId</i>	DM_DRC_SPARE3 (description="DM_DRC_SPARE3 [raw]", quantity="none")
<i>LongId</i>	HD_SEG_FLAG (description="HD_SEG_FLAG [raw]", quantity="none")
<i>StringId</i>	DM_FWPC_MOVING (description="DM_FWPC_MOVING", quantity="none")
<i>StringId</i>	DM_CR2_ST_HE (description="DM_CR2_ST_HE", quantity="none")
<i>LongId</i>	DM_BOL_STATUS (description="DM_BOL_STATUS [raw]", quantity="none")
<i>StringId</i>	DM_CS1C_TASK_WR (description="DM_CS1C_TASK_WR", quantity="none")
<i>StringId</i>	DM_CS1C_SYNCHRO (description="DM_CS1C_SYNCHRO", quantity="none")
<i>LongId</i>	DM_B_SPEC_READ (description="DM_B_SPEC_READ [raw]", quantity="none")
<i>StringId</i>	DP_EV_DEC_SPC (description="DP_EV_DEC_SPC", quantity="none")
<i>DoubleId</i>	DM_SPU_VCC_VOL (description="DM_SPU_VCC_VOL [eng, V]", quantity="none")
<i>DoubleId</i>	DM_CHOPPER_TEMP (description="DM_CHOPPER_TEMP [eng, K]", quantity="none")
<i>StringId</i>	SPL_DMC_LINK (description="SPL_DMC_LINK", quantity="none")
<i>LongId</i>	DM_BPE_SPARE4 (description="DM_BPE_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DP_DEC_LINK_PE (description="DP_DEC_LINK_PE [raw]", quantity="none")
<i>LongId</i>	DM_DECB_RO_RA_4 (description="DM_DECB_RO_RA_4 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_RO_RA_3 (description="DM_DECB_RO_RA_3 [raw]", quantity="none")
<i>LongId</i>	DP_TC_LOST (description="DP_TC_LOST [raw]", quantity="none")
<i>StringId</i>	DP_RED_SCIENCE (description="DP_RED_SCIENCE", quantity="none")

<i>DoubleId</i>	SPS_CPUWORKLOAD (description="SPS_CPUWORKLOAD [eng, %]", quantity="none")
<i>StringId</i>	DM_DBC_TASK_WR (description="DM_DBC_TASK_WR", quantity="none")
<i>StringId</i>	DM_GC_TASK_WR (description="DM_GC_TASK_WR", quantity="none")
<i>LongId</i>	HD_SRC_SEQ_CTN (description="HD_SRC_SEQ_CTN [raw]", quantity="none")
<i>StringId</i>	DM_CS2C_LOOP (description="DM_CS2C_LOOP", quantity="none")
<i>StringId</i>	DM_CR3_ST_HE (description="DM_CR3_ST_HE", quantity="none")
<i>StringId</i>	DM_CS1C_UP (description="DM_CS1C_UP", quantity="none")
<i>StringId</i>	DM_CS1C_LOOP (description="DM_CS1C_LOOP", quantity="none")
<i>StringId</i>	DM_RPE_LINK (description="DM_RPE_LINK", quantity="none")
<i>LongId</i>	DM_DBC_SPARE3 (description="DM_DBC_SPARE3 [raw]", quantity="none")
<i>DoubleId</i>	DM_CS2_OUTPUT (description="DM_CS2_OUTPUT [eng, V]", quantity="none")
<i>LongId</i>	DM_RPE_SPARE4 (description="DM_RPE_SPARE4 [raw]", quantity="none")
<i>StringId</i>	DM_RPE_TASK_WR (description="DM_RPE_TASK_WR", quantity="none")
<i>StringId</i>	DP_WHICH_OBCP (description="DP_WHICH_OBCP", quantity="none")
<i>StringId</i>	DM_CS1C_PID (description="DM_CS1C_PID", quantity="none")
<i>StringId</i>	DP_1553CHANNEL (description="DP_1553CHANNEL", quantity="none")
<i>LongId</i>	DM_CC_SPARE1B (description="DM_CC_SPARE1B [raw]", quantity="none")
<i>LongId</i>	DM_CC_SPARE1A (description="DM_CC_SPARE1A [raw]", quantity="none")
<i>LongId</i>	DM_DECB_CTRL_ST (description="DM_DECB_CTRL_ST [raw]", quantity="none")
<i>StringId</i>	DM_DBC_POWER (description="DM_DBC_POWER", quantity="none")
<i>LongId</i>	DP_COM_DMC_NACK (description="DP_COM_DMC_NACK [raw]", quantity="none")
<i>StringId</i>	DM_DRC_POWER (description="DM_DRC_POWER", quantity="none")
<i>LongId</i>	DP_SW_SUBVERS_ID (description="DP_SW_SUBVERS_ID [raw]", quantity="none")
<i>StringId</i>	DM_BPE_LINK (description="DM_BPE_LINK", quantity="none")
<i>StringId</i>	DM_FWSC_POWER (description="DM_FWSC_POWER", quantity="none")
<i>StringId</i>	DM_DBC_TASK_AL (description="DM_DBC_TASK_AL", quantity="none")

<i>StringId</i>	DM_GC_LL_UNLOCK (description="DM_GC_LL_UNLOCK", quantity="none")
<i>StringId</i>	DM_CR3_ST_FL (description="DM_CR3_ST_FL", quantity="none")
<i>LongId</i>	DM_R_SPEC_READ (description="DM_R_SPEC_READ [raw]", quantity="none")
<i>LongId</i>	DM_DM_SF_IND (description="DM_DM_SF_IND [raw]", quantity="none")
<i>LongId</i>	DM_RED_PAC_ENC (description="DM_RED_PAC_ENC [raw]", quantity="none")
<i>LongId</i>	DM_CS2C_SPARE4 (description="DM_CS2C_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DM_CS2C_SPARE1 (description="DM_CS2C_SPARE1 [raw]", quantity="none")
<i>LongId</i>	DM_CS1C_SPARE1B (description="DM_CS1C_SPARE1B [raw]", quantity="none")
<i>LongId</i>	DM_DECB_REC_STA (description="DM_DECB_REC_STA [raw]", quantity="none")
<i>StringId</i>	DM_DRC_ERR_NS (description="DM_DRC_ERR_NS", quantity="none")
<i>DoubleId</i>	DM_REF_VOLT_5V (description="DM_REF_VOLT_5V [eng, V]", quantity="none")
<i>StringId</i>	DM_CR3_ST_SEL (description="DM_CR3_ST_SEL", quantity="none")
<i>StringId</i>	DP_CONTROLLER (description="DP_CONTROLLER", quantity="none")
<i>LongId</i>	DM_CHOP_CTRL_ST (description="DM_CHOP_CTRL_ST [raw]", quantity="none")
<i>StringId</i>	DM_CR1_ST_SEL (description="DM_CR1_ST_SEL", quantity="none")
<i>LongId</i>	DP_COM_SPL_NACK (description="DP_COM_SPL_NACK [raw]", quantity="none")
<i>LongId</i>	SPL_CI (description="SPL_CI [raw]", quantity="none")
<i>StringId</i>	DM_RSPU_TR_MODE (description="DM_RSPU_TR_MODE", quantity="none")
<i>LongId</i>	HD_SOURCE_TYPE (description="HD_SOURCE_TYPE [raw]", quantity="none")
<i>LongId</i>	DM_HKD_ERROR (description="DM_HKD_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_SEQ_WAIT_IND (description="DM_SEQ_WAIT_IND [raw]", quantity="none")
<i>StringId</i>	DM_BR_ERR_NS (description="DM_BR_ERR_NS", quantity="none")
<i>DoubleId</i>	BOL_TEMP_PSU_2 (description="BOL_TEMP_PSU_2 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_PSU_1 (description="BOL_TEMP_PSU_1 [eng, degC]", quantity="none")

<i>DoubleId</i>	DM_CS1_RES_VAL (description="DM_CS1_RES_VAL [eng, Ohm]", quantity="none")
<i>LongId</i>	DM_FWSC_ERROR (description="DM_FWSC_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_CS2C_COMMUT (description="DM_CS2C_COMMUT", quantity="none")
<i>LongId</i>	DP_SPUL_LINK_PE (description="DP_SPUL_LINK_PE [raw]", quantity="none")
<i>LongId</i>	DM_DPU_SEND_PAC (description="DM_DPU_SEND_PAC [raw]", quantity="none")
<i>StringId</i>	DP_DMC_LINK (description="DP_DMC_LINK", quantity="none")
<i>LongId</i>	DM_VID (description="DM_VID [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_V_PWR (description="DP_EV_BOL_V_PWR", quantity="none")
<i>LongId</i>	SPL_REAL (description="SPL_REAL [raw]", quantity="none")
<i>LongId</i>	DM_GRAT_SETPOIN (description="DM_GRAT_SETPOIN [raw]", quantity="none")
<i>LongId</i>	DM_DECR_TS_ST_1 (description="DM_DECR_TS_ST_1 [raw]", quantity="none")
<i>LongId</i>	DM_DECR_TS_ST_2 (description="DM_DECR_TS_ST_2 [raw]", quantity="none")
<i>StringId</i>	DM_CS1C_ERR_NS (description="DM_CS1C_ERR_NS", quantity="none")
<i>StringId</i>	DM_GC_HOM_PROG (description="DM_GC_HOM_PROG", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_SP2 (description="DP_EV_BOL_I_SP2", quantity="none")
<i>LongId</i>	DM_CHOP_PID_ERR (description="DM_CHOP_PID_ERR [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_SP1 (description="DP_EV_BOL_I_SP1", quantity="none")
<i>StringId</i>	DP_COUNTER_DEC (description="DP_COUNTER_DEC", quantity="none")
<i>LongId</i>	DP_STATUS (description="DP_STATUS [raw]", quantity="none")
<i>LongId</i>	SPL_INTEG_RAMPS (description="SPL_INTEG_RAMPS [raw]", quantity="none")
<i>DoubleId</i>	DM_CS1_TARGET (description="DM_CS1_TARGET [eng, Ohm]", quantity="none")
<i>LongId</i>	DP_COM_REJ_DPU (description="DP_COM_REJ_DPU [raw]", quantity="none")
<i>LongId</i>	DM_DECR_RO_RA_1 (description="DM_DECR_RO_RA_1 [raw]", quantity="none")
<i>LongId</i>	DM_DECR_RO_RA_2 (description="DM_DECR_RO_RA_2 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_VCAN1_4 (description="DM_DECB_VCAN1_4 [eng, V]", quantity="none")
<i>LongId</i>	DM_DM_DF_IND (description="DM_DM_DF_IND [raw]", quantity="none")

<i>StringId</i>	DP_HK_MONITOR (description="DP_HK_MONITOR", quantity="none")
<i>DoubleId</i>	DM_DECB_VCAN1_3 (description="DM_DECB_VCAN1_3 [eng, V]", quantity="none")
<i>StringId</i>	DM_CC_ERR_NS (description="DM_CC_ERR_NS", quantity="none")
<i>StringId</i>	DM_CR4_ST_CS (description="DM_CR4_ST_CS", quantity="none")
<i>LongId</i>	SPS_INTEG_RAMPS (description="SPS_INTEG_RAMPS [raw]", quantity="none")
<i>LongId</i>	SPS_MAINT_RAMPS (description="SPS_MAINT_RAMPS [raw]", quantity="none")
<i>LongId</i>	DM_DECR_REC_STA (description="DM_DECR_REC_STA [raw]", quantity="none")
<i>StringId</i>	DM_DBC_ERR_NS (description="DM_DBC_ERR_NS", quantity="none")
<i>DoubleId</i>	DM_SPU_PSU_P15V (description="DM_SPU_PSU_P15V [eng, V]", quantity="none")
<i>LongId</i>	DM_CC_SPARE1C (description="DM_CC_SPARE1C [raw]", quantity="none")
<i>DoubleId</i>	DM_SPU_LWL_TEMP (description="DM_SPU_LWL_TEMP [eng, K]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_5 (description="DM_CUSTOM_ENT_5 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_4 (description="DM_CUSTOM_ENT_4 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_7 (description="DM_CUSTOM_ENT_7 [raw]", quantity="none")
<i>LongId</i>	DP_DEC_LINK_DE (description="DP_DEC_LINK_DE [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_6 (description="DM_CUSTOM_ENT_6 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_9 (description="DM_CUSTOM_ENT_9 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_8 (description="DM_CUSTOM_ENT_8 [raw]", quantity="none")
<i>StringId</i>	DP_HK_CHK (description="DP_HK_CHK", quantity="none")
<i>LongId</i>	DM_DECR_CTRL_ST (description="DM_DECR_CTRL_ST [raw]", quantity="none")
<i>LongId</i>	HD_DATA_FLAG (description="HD_DATA_FLAG [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_1 (description="DM_CUSTOM_ENT_1 [raw]", quantity="none")
<i>StringId</i>	DM_FWSC_SEARCHB (description="DM_FWSC_SEARCHB", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_3 (description="DM_CUSTOM_ENT_3 [raw]", quantity="none")

<i>StringId</i>	DM_FWSC_SEARCHA (description="DM_FWSC_SEARCHA", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_2 (description="DM_CUSTOM_ENT_2 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_TS_ST_4 (description="DM_DECB_TS_ST_4 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_TS_ST_3 (description="DM_DECB_TS_ST_3 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_VBI_R_2 (description="DM_DECR_VBI_R_2 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_VBI_R_1 (description="DM_DECR_VBI_R_1 [eng, V]", quantity="none")
<i>StringId</i>	DM_CR2_ST_CRPOW (description="DM_CR2_ST_CRPOW", quantity="none")
<i>StringId</i>	DM_CS2C_ERR_NS (description="DM_CS2C_ERR_NS", quantity="none")
<i>StringId</i>	DM_CR3_ST_CS (description="DM_CR3_ST_CS", quantity="none")
<i>LongId</i>	DM_CHOP_TARGET (description="DM_CHOP_TARGET [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_V0BIAS1 (description="DM_DECR_V0BIAS1 [eng, V]", quantity="none")
<i>StringId</i>	DM_SEQ_TASK_WR (description="DM_SEQ_TASK_WR", quantity="none")
<i>DoubleId</i>	DM_DECR_V0BIAS2 (description="DM_DECR_V0BIAS2 [eng, V]", quantity="none")
<i>StringId</i>	SPS_SATUR_FLAG (description="SPS_SATUR_FLAG", quantity="none")
<i>StringId</i>	DM_FWSP_CUR_POS (description="DM_FWSP_CUR_POS", quantity="none")
<i>StringId</i>	DP_EVENT_SPU (description="DP_EVENT_SPU", quantity="none")
<i>StringId</i>	DM_DPUS_TASK_AL (description="DM_DPUS_TASK_AL", quantity="none")
<i>LongId</i>	DM_CS1_CTRL_STA (description="DM_CS1_CTRL_STA [raw]", quantity="none")
<i>StringId</i>	DM_DPUR_LINK (description="DM_DPUR_LINK", quantity="none")
<i>DoubleId</i>	DM_CS2_RES_VAL (description="DM_CS2_RES_VAL [eng, Ohm]", quantity="none")
<i>StringId</i>	DM_DRR_TASK_AL (description="DM_DRR_TASK_AL", quantity="none")
<i>StringId</i>	DM_GC_LS (description="DM_GC_LS", quantity="none")
<i>StringId</i>	DM_CS2C_TASK_AL (description="DM_CS2C_TASK_AL", quantity="none")
<i>DoubleId</i>	DP_WORK_LOAD (description="DP_WORK_LOAD [eng, %]", quantity="none")

<i>LongId</i>	DP_HK_LOST (description="DP_HK_LOST [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_VDDA_4 (description="DM_DECB_VDDA_4 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_GRATING_TEMP (description="DM_GRATING_TEMP [eng, K]", quantity="none")
<i>DoubleId</i>	DM_DECB_VDDA_3 (description="DM_DECB_VDDA_3 [eng, V]", quantity="none")
<i>LongId</i>	DM_DRR_SPARE2 (description="DM_DRR_SPARE2 [raw]", quantity="none")
<i>LongId</i>	DM_DRC_ERROR (description="DM_DRC_ERROR [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_VDDA_1 (description="DM_DECR_VDDA_1 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_VDDA_2 (description="DM_DECR_VDDA_2 [eng, V]", quantity="none")
<i>StringId</i>	DM_FWSC_POSC_B (description="DM_FWSC_POSC_B", quantity="none")
<i>StringId</i>	DM_FWSC_POSC_A (description="DM_FWSC_POSC_A", quantity="none")
<i>DoubleId</i>	DM_DECR_VCAN1_2 (description="DM_DECR_VCAN1_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_EV_SWT (description="BOL_TEMP_EV_SWT [eng, K]", quantity="none")
<i>DoubleId</i>	DM_DECR_VCAN1_1 (description="DM_DECR_VCAN1_1 [eng, V]", quantity="none")
<i>LongId</i>	HD_PCKT_SUBTYPE (description="HD_PCKT_SUBTYPE [raw]", quantity="none")
<i>StringId</i>	DM_CR1_ST_SIM (description="DM_CR1_ST_SIM", quantity="none")
<i>DoubleId</i>	DM_DECB_AC_CUR (description="DM_DECB_AC_CUR [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECB_VBI_R_4 (description="DM_DECB_VBI_R_4 [eng, V]", quantity="none")
<i>StringId</i>	SPL_SATUR_FLAG (description="SPL_SATUR_FLAG", quantity="none")
<i>DoubleId</i>	DM_DECB_VBI_R_3 (description="DM_DECB_VBI_R_3 [eng, V]", quantity="none")
<i>LongId</i>	DM_DECR_CR_ST_2 (description="DM_DECR_CR_ST_2 [raw]", quantity="none")
<i>LongId</i>	DM_DBC_ERROR (description="DM_DBC_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_DECR_CR_ST_1 (description="DM_DECR_CR_ST_1 [raw]", quantity="none")
<i>StringId</i>	DP_AF_24_SPARE (description="DP_AF_24_SPARE", quantity="none")
<i>DoubleId</i>	DM_DECR_VDDR_1 (description="DM_DECR_VDDR_1 [eng, V]", quantity="none")

<i>DoubleId</i>	DM_DECR_VDDR_2 (description="DM_DECR_VDDR_2 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DCDC_TEMP (description="DM_DCDC_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DP_1355_HANDLER (description="DP_1355_HANDLER", quantity="none")
<i>StringId</i>	DM_DRR_SIM_TIME (description="DM_DRR_SIM_TIME", quantity="none")
<i>StringId</i>	DM_CR1_ST_CS (description="DM_CR1_ST_CS", quantity="none")
<i>LongId</i>	HD_PUS_VERSION (description="HD_PUS_VERSION [raw]", quantity="none")
<i>LongId</i>	DP_SPARE (description="DP_SPARE [raw]", quantity="none")
<i>StringId</i>	DM_FWSC_POS_B (description="DM_FWSC_POS_B", quantity="none")
<i>LongId</i>	DP_SW_VERS_ID (description="DP_SW_VERS_ID [raw]", quantity="none")
<i>StringId</i>	DM_FWSC_ERR_NS (description="DM_FWSC_ERR_NS", quantity="none")
<i>StringId</i>	DM_FWSC_POS_A (description="DM_FWSC_POS_A", quantity="none")
<i>StringId</i>	DP_SPUL_HK (description="DP_SPUL_HK", quantity="none")
<i>LongId</i>	DM_BOL_REC_PAC (description="DM_BOL_REC_PAC [raw]", quantity="none")
<i>StringId</i>	DP_COUNTER_SPEC (description="DP_COUNTER_SPEC", quantity="none")
<i>LongId</i>	DP_EVENT_LOST (description="DP_EVENT_LOST [raw]", quantity="none")
<i>LongId</i>	SPS_OBSID (description="SPS_OBSID [raw]", quantity="none")
<i>DoubleId</i>	DM_CS2_TARGET (description="DM_CS2_TARGET [eng, Ohm]", quantity="none")
<i>StringId</i>	DM_DRR_LINK (description="DM_DRR_LINK", quantity="none")
<i>StringId</i>	DM_DBR_TASK_WR (description="DM_DBR_TASK_WR", quantity="none")
<i>StringId</i>	DP_EVENT_DPU (description="DP_EVENT_DPU", quantity="none")
<i>StringId</i>	DM_BC_TASK_WR (description="DM_BC_TASK_WR", quantity="none")
<i>StringId</i>	DP_INIT (description="DP_INIT", quantity="none")
<i>LongId</i>	DM_PLL_RES_LO (description="DM_PLL_RES_LO [raw]", quantity="none")
<i>LongId</i>	SPL_MEM_CNTS (description="SPL_MEM_CNTS [raw]", quantity="none")
<i>LongId</i>	DP_AF_STATUS (description="DP_AF_STATUS [raw]", quantity="none")
<i>StringId</i>	DM_CC_DOWN (description="DM_CC_DOWN", quantity="none")
<i>DoubleId</i>	DM_CHOP_OUTPUT (description="DM_CHOP_OUTPUT [eng, mA]", quantity="none")

<i>DoubleId</i>	DM_DEC_B_VDDR_4 (description="DM_DEC_B_VDDR_4 [eng, V]", quantity="none")
<i>StringId</i>	DP_TM_RATE (description="DP_TM_RATE", quantity="none")
<i>DoubleId</i>	DM_DEC_B_VDDR_3 (description="DM_DEC_B_VDDR_3 [eng, V]", quantity="none")
<i>StringId</i>	DM_CR2_ST_SEL (description="DM_CR2_ST_SEL", quantity="none")
<i>StringId</i>	DP_DMC_HK (description="DP_DMC_HK", quantity="none")

3.1.27. PACS Product Level 0 - Raw Data Spectrometer blue

<i>product (type="HPSRAWBS", description="Raw Data Spectrometer blue")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
StringParameter	camName (description="Name of the Camera")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
BooleanParameter	Initialized (description="null")
LongParameter	Obsid (description="null")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")

StringParameter	level (description="Product Level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")

StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")

DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
<i>Columns</i>	
<i>table dataset</i>	(name="Signal", description="Table for science data.")
<i>Metadata</i>	
<i>Columns</i>	
	<i>Int1d</i> detnum (description="null", quantity="none")
	<i>Int1d</i> row (description="null", quantity="none")
	<i>Int1d</i> column (description="null", quantity="none")
	<i>Int1d</i> reset (description="null", quantity="none")
	<i>Double2d</i> readouts (description="null", quantity="none")

3.1.28. PACS Product Level 0 - Raw Data Spectrometer red

<i>product (type="HPSRAWRS", description="Raw Data Spectrometer red")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
StringParameter	camName (description="Name of the Camera")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
BooleanParameter	Initialized (description="null")
LongParameter	Obsid (description="null")
LongParameter	apid (description="Application Programme Identifier")

DoubleParameter	subType (description="HSPOT: Product subtype: 1:BolRed 2:BolBlue 3:SpecRed 4:SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product Level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")

DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{\text{rest}} - \lambda) / \lambda_{\text{rest}}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")

StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
<i>Columns</i>	
<i>table dataset</i>	(name="Signal", description="Table for science data.")
<i>Metadata</i>	
<i>Columns</i>	
<i>Int1d</i>	detnum (description="null", quantity="none")
<i>Int1d</i>	row (description="null", quantity="none")
<i>Int1d</i>	column (description="null", quantity="none")
<i>Int1d</i>	reset (description="null", quantity="none")
<i>Double2d</i>	readouts (description="null", quantity="none")

3.1.29. PACS Product Level 0.5 - Spectroscopy raw DecMec status blue product

<i>product (type="HPSDMCBS", description="Spectroscopy raw DecMec status blue product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")

DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")

StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")

StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")

DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")	
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")	
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")	
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")	
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")	
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")	
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")	
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")	
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")	
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")	
LongParameter	repetition (description="SLICE_INFO: repetition", quantity="micrometer")	
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")	
LongParameter	sliceNumber (description="Slice number", quantity="micrometer")	
<i>Columns</i>		
<i>table dataset</i>	(name="DmcHeader", description="Status")	
<i>Metadata</i>		
StringParameter	MODE (description="null")	
LongParameter	DIM1 (description="Number of measures per status parameter")	
LongParameter	DIM2 (description="Number of measures per status parameter")	
<i>Columns</i>		
	<i>Int1d</i>	RESETINDEX (description="Indicates the reset index of the status parameters", quantity="none")
	<i>Int1d</i>	OBSID (description="Identifier of the observation", quantity="none")
	<i>Int1d</i>	BBID (description="Building block type", quantity="none")
	<i>Int2d</i>	LBL (description="Label", quantity="none")
	<i>Int2d</i>	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
	<i>Int2d</i>	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
	<i>Long2d</i>	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
	<i>Int2d</i>	VLD (description="Validity flag set by DecMec", quantity="none")
	<i>Int2d</i>	CPR (description="Chopper position", quantity="none")
	<i>Int2d</i>	WPR (description="Filter wheel Position", quantity="none")
	<i>Int2d</i>	GPR (description="Grating Position", quantity="none")
	<i>Int2d</i>	CRCRMP (description="Readout counter within an integration ramp", quantity="none")

				<i>Int2d</i>	RRR (description="Readouts in Ramp", quantity="none")
				<i>Int2d</i>	CRDC (description="Current Readout counter since last time reset", quantity="none")
				<i>Int2d</i>	CRECR (description="CRE status word", quantity="none")

3.1.30. PACS Product Level 0.5 - Spectroscopy raw DecMec status blue product

<i>product (type="HPSDMCBS", description="Spectroscopy raw DecMec status blue product")</i>					
<i>Metadata</i>					
StringParameter	type	(description="Product Type Identification")			
StringParameter	creator	(description="Generator of this product")			
DateParameter	creationDate	(description="Creation date of this product")			
StringParameter	description	(description="Name of this product")			
StringParameter	instrument	(description="Instrument attached to this product")			
StringParameter	modelName	(description="Model name attached to this product")			
DateParameter	startDate	(description="Start date of the observation")			
DateParameter	endDate	(description="End date of the observation")			
StringParameter	formatVersion	(description="Version of product format")			
LongParameter	detRow	(description="Number of detector rows")			
LongParameter	detCol	(description="Number of detector columns")			
StringParameter	camName	(description="Name of the Camera")			
StringParameter	level	(description="Product level")			
LongParameter	obsid	(description="Observation Identifier")			
LongParameter	obsType	(description="Observation type")			
LongParameter	obsCount	(description="Observation counter")			
StringParameter	camera	(description="Camera")			
LongParameter	odNumber	(description="Operational Day Number count")			
StringParameter	cusMode	(description="line or range spectroscopy")			
StringParameter	instMode	(description="Instrument Mode")			
StringParameter	obsMode	(description="Observation mode name")			
StringParameter	processingMode	(description="SPG pipeline processing mode selected")			
StringParameter	OnOffPosition	(description="Entire product: ON-src, OFF-src, Undef?")			
StringParameter	observer	(description="Observer name")			
StringParameter	proposal	(description="Proposal name")			
StringParameter	pointingMode	(description="Pointing mode")			
DateParameter	slewTime	(description="Scheduled start time of the slew")			
StringParameter	origin	(description="Site that created the product")			
StringParameter	aorLabel	(description="AOR Label as entered in HSpot")			
StringParameter	aot	(description="AOT Identifier")			
DoubleParameter	equinox	(description="Equinox of celestial coordinate system")			
StringParameter	missionConfig	(description="Mission configuration")			

StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")

StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")

LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
LongParameter	sliceNumber (description="Slice number", quantity="micrometer")
<i>Columns</i>	
<i>table dataset</i>	(name="DmcHeader", description="Status")
<i>Metadata</i>	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
LongParameter	DIM2 (description="Number of measures per status parameter")
<i>Columns</i>	
<i>Int1d</i>	RESETINDEX (description="Indicates the reset index of the status parameters", quantity="none")
<i>Int1d</i>	OBSID (description="Identifier of the observation", quantity="none")
<i>Int1d</i>	BBID (description="Building block type", quantity="none")
<i>Int2d</i>	LBL (description="Label", quantity="none")
<i>Int2d</i>	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")

<i>Int2d</i>	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
<i>Long2d</i>	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
<i>Int2d</i>	VLD (description="Validity flag set by DecMec", quantity="none")
<i>Int2d</i>	CPR (description="Chopper position", quantity="none")
<i>Int2d</i>	WPR (description="Filter wheel Position", quantity="none")
<i>Int2d</i>	GPR (description="Grating Position", quantity="none")
<i>Int2d</i>	CRCRMP (description="Readout counter within an integration ramp", quantity="none")
<i>Int2d</i>	RRR (description="Readouts in Ramp", quantity="none")
<i>Int2d</i>	CRDC (description="Current Readout counter since last time reset", quantity="none")
<i>Int2d</i>	CRECR (description="CRE status word", quantity="none")

3.1.31. PACS Product Level 0.5 - Spectroscopy raw DecMec status red product

<i>product (type="HPSDMCRS", description="Spectroscopy raw DecMec status red product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")

StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")

BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")

LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="s")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="s")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="s")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="s")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="s")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="s")
LongParameter	order (description="SLICE_INFO: filter order", quantity="s")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="s")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	repetition (description="SLICE_INFO: repetition", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
LongParameter	sliceNumber (description="Slice number", quantity="micrometer")
<i>Columns</i>	
<i>table dataset</i>	(name="DmcHeader", description="Status")
<i>Metadata</i>	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
LongParameter	DIM2 (description="Number of measures per status parameter")

<i>Columns</i>	
<i>Int1d</i>	RESETINDEX (description="Indicates the reset index of the status parameters", quantity="none")
<i>Int1d</i>	OBSID (description="Identifier of the observation", quantity="none")
<i>Int1d</i>	BBID (description="Building block type", quantity="none")
<i>Int2d</i>	LBL (description="Label", quantity="none")
<i>Int2d</i>	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
<i>Int2d</i>	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
<i>Long2d</i>	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
<i>Int2d</i>	VLD (description="Validity flag set by DecMec", quantity="none")
<i>Int2d</i>	CPR (description="Chopper position", quantity="none")
<i>Int2d</i>	WPR (description="Filter wheel Position", quantity="none")
<i>Int2d</i>	GPR (description="Grating Position", quantity="none")
<i>Int2d</i>	CRCRMP (description="Readout counter within an integration ramp", quantity="none")
<i>Int2d</i>	RRR (description="Readouts in Ramp", quantity="none")
<i>Int2d</i>	CRDC (description="Current Readout counter since last time reset", quantity="none")
<i>Int2d</i>	CRECR (description="CRE status word", quantity="none")

3.1.32. PACS Product Level 0.5 - Spectroscopy raw DecMec status red product

<i>product (type="HPSDMCRS", description="Spectroscopy raw DecMec status red product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")

LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")

LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")

StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="s")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="s")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="s")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="s")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="s")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="s")
LongParameter	order (description="SLICE_INFO: filter order", quantity="s")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="s")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
LongParameter	sliceNumber (description="Slice number", quantity="micrometer")
Columns	

<i>table dataset</i>		(<i>name="DmcHeader", description="Status"</i>)
<i>Metadata</i>		
StringParameter		MODE (description="null")
LongParameter		DIM1 (description="Number of measures per status parameter")
LongParameter		DIM2 (description="Number of measures per status parameter")
<i>Columns</i>		
	<i>Int1d</i>	RESETINDEX (description="Indicates the reset index of the status parameters", quantity="none")
	<i>Int1d</i>	OBSID (description="Identifier of the observation", quantity="none")
	<i>Int1d</i>	BBID (description="Building block type", quantity="none")
	<i>Int2d</i>	LBL (description="Label", quantity="none")
	<i>Int2d</i>	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
	<i>Int2d</i>	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
	<i>Long2d</i>	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
	<i>Int2d</i>	VLD (description="Validity flag set by DecMec", quantity="none")
	<i>Int2d</i>	CPR (description="Chopper position", quantity="none")
	<i>Int2d</i>	WPR (description="Filter wheel Position", quantity="none")
	<i>Int2d</i>	GPR (description="Grating Position", quantity="none")
	<i>Int2d</i>	CRCRMP (description="Readout counter within an integration ramp", quantity="none")
	<i>Int2d</i>	RRR (description="Readouts in Ramp", quantity="none")
	<i>Int2d</i>	CRDC (description="Current Readout counter since last time reset", quantity="none")
	<i>Int2d</i>	CRECR (description="CRE status word", quantity="none")

3.1.33. PACS Product Level 0.5 - Spectroscopy slope fitted blue product

<i>product</i>		(<i>type="HPSFITBS", description="Spectroscopy slope fitted blue product"</i>)
<i>Metadata</i>		
StringParameter	type	(description="Product Type Identification")
StringParameter	creator	(description="Generator of this product")
DateParameter	creationDate	(description="Creation date of this product")
StringParameter	description	(description="Name of this product")
StringParameter	instrument	(description="Instrument attached to this product")
StringParameter	modelName	(description="Model name attached to this product")

DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1:BolRed 2:BolBlue 3:SpecRed 4:SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")

StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")

StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")

StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")

DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	repetition (description="SLICE_INFO: repetition", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double3d</i>	(description="null", quantity="V s-1")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Ra", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Dec", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Wave", description="null")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

3.1.34. PACS Product Level 0.5 - Spectroscopy slope fitted blue product

<i>product</i> (type="HPSFITBS", description="Spectroscopy slope fitted blue product")
<i>Metadata</i>

StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")

LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")

StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")

StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")

LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double3d</i>	(description="null", quantity="V s-1")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Ra", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Dec", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Wave", description="null")
	()

<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

3.1.35. PACS Product Level 0.5 - Spectroscopy slope fitted red product

<i>product (type="HPSFITRS", description="Spectroscopy slope fitted red product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")

LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")

DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")

LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")

DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	repetition (description="SLICE_INFO: repetition", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="null")
<i>Metadata</i>	

<i>Columns</i>	
<i>Double3d</i>	(description="null", quantity="V s-1")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Ra", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Dec", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Wave", description="null")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

3.1.36. PACS Product Level 0.5 - Spectroscopy slope fitted red product

<i>product (type="HPSFITRS", description="Spectroscopy slope fitted red product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")

StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")

StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")

BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")

StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacsSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")

BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
Columns	
array dataset	(description="null")
Metadata	
Columns	
Double3d	(description="null", quantity="V s-1")
	()
array dataset	Dataset similar to the one above with (name="Ra", description="null")
	()
array dataset	Dataset similar to the one above with (name="Dec", description="null")
	()
array dataset	Dataset similar to the one above with (name="Wave", description="null")
	()
composite dataset	Dataset similar to the one above with (name="History", description="History of product")

3.1.37. PACS Product Level 0 - HPEVENTS

<i>product (type="HPEVENTS", description="HPEVENTS")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfiguration (description="Mission Configuration")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")

StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")

BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineId (description="HSPOT: line ID", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")

LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
StringParameter	level (description="Product Level", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
Columns	
table dataset	(name="HPEVENTS", description="Generated from PacketSequence \$Revision: 1.1 \$")
Metadata	
StringParameter	revision (description="PacketSequence Revision from which this data was generated.")
Columns	
LongId	Time (description="Time [microseconds]", quantity="microseconds")
LongId	HD_SPARE_3 (description="HD_SPARE_3 [raw]", quantity="none")
LongId	EVENT_SID (description="EVENT_SID [raw]", quantity="none")
StringId	EVENT_COUNT_ID (description="EVENT_COUNT_ID", quantity="none")
LongId	HD_VERSION_NUMB (description="HD_VERSION_NUMB [raw]", quantity="none")
LongId	EVENT_OBSID (description="EVENT_OBSID [raw]", quantity="none")
LongId	HD_LENGTH (description="HD_LENGTH [raw]", quantity="none")
LongId	FIRST32BIT_TIME (description="FIRST32BIT_TIME [raw]", quantity="none")
LongId	HD_APID (description="HD_APID [raw]", quantity="none")
LongId	HD_SPARE_1 (description="HD_SPARE_1 [raw]", quantity="none")
LongId	HD_PACKET_TYPE (description="HD_PACKET_TYPE [raw]", quantity="none")
DoubleId	LAST_16BIT_TIME (description="LAST_16BIT_TIME [eng, s]", quantity="none")
LongId	HD_SPARE_2 (description="HD_SPARE_2 [raw]", quantity="none")
LongId	EVENT_BBID (description="EVENT_BBID [raw]", quantity="none")
LongId	HD_PUS_VERSION (description="HD_PUS_VERSION [raw]", quantity="none")
LongId	HD_SEG_FLAG (description="HD_SEG_FLAG [raw]", quantity="none")
LongId	HD_PCKT_SUBTYPE (description="HD_PCKT_SUBTYPE [raw]", quantity="none")
StringId	EVENT_ID (description="EVENT_ID", quantity="none")
LongId	HD_SRC_SEQ_CTN (description="HD_SRC_SEQ_CTN [raw]", quantity="none")

<i>LongId</i>	HD_DATA_FLAG (description="HD_DATA_FLAG [raw]", quantity="none")
<i>LongId</i>	HD_SOURCE_TYPE (description="HD_SOURCE_TYPE [raw]", quantity="none")
<i>LongId</i>	EVENT_COUNTER (description="EVENT_COUNTER [raw]", quantity="none")
<i>DoubleId</i>	PACKET_COUNTER (description="PACKET_COUNTER [raw]", quantity="none")
<i>DoubleId</i>	PARAMETER_A1 (description="PARAMETER_A1 [raw]", quantity="none")
<i>DoubleId</i>	PACKET_ECHO2 (description="PACKET_ECHO2 [raw]", quantity="none")
<i>DoubleId</i>	STATE (description="STATE [raw]", quantity="none")
<i>DoubleId</i>	PACKET_ECHO1 (description="PACKET_ECHO1 [raw]", quantity="none")
<i>DoubleId</i>	FCS_CRC (description="FCS_CRC [raw]", quantity="none")
<i>DoubleId</i>	PARAMETER_A (description="PARAMETER_A [raw]", quantity="none")
<i>DoubleId</i>	PIX_VALUE (description="PIX_VALUE [raw]", quantity="none")
<i>DoubleId</i>	STATUS (description="STATUS [raw]", quantity="none")
<i>DoubleId</i>	SECOND_VALUE_1 (description="SECOND_VALUE_1 [raw]", quantity="none")
<i>DoubleId</i>	FIRST_VALUE_1 (description="FIRST_VALUE_1 [raw]", quantity="none")
<i>DoubleId</i>	FIRST_WORD (description="FIRST_WORD [raw]", quantity="none")
<i>DoubleId</i>	1355_LINK_5 (description="1355_LINK_5 [raw]", quantity="none")
<i>DoubleId</i>	SECOND_WORD (description="SECOND_WORD [raw]", quantity="none")
<i>DoubleId</i>	SECOND_VALUE_2 (description="SECOND_VALUE_2 [raw]", quantity="none")
<i>DoubleId</i>	FIRST_VALUE_2 (description="FIRST_VALUE_2 [raw]", quantity="none")
<i>DoubleId</i>	II_COMD_WORD_6 (description="II_COMD_WORD_6 [raw]", quantity="none")
<i>DoubleId</i>	II_ACK_WORD_6 (description="II_ACK_WORD_6 [raw]", quantity="none")
<i>DoubleId</i>	I_COMD_WORD_6 (description="I_COMD_WORD_6 [raw]", quantity="none")
<i>DoubleId</i>	1355_LINK_6 (description="1355_LINK_6 [raw]", quantity="none")
<i>DoubleId</i>	I_ACK_WORD_6 (description="I_ACK_WORD_6 [raw]", quantity="none")
<i>LongId</i>	RECEIVED_WORD_8 (description="RECEIVED_WORD_8 [raw]", quantity="none")
<i>StringId</i>	1355_LINK_8 (description="1355_LINK_8", quantity="none")
<i>LongId</i>	HEADER_8 (description="HEADER_8 [raw]", quantity="none")

				<i>LongId</i> EXPEC_LENGTH_8 (description="EXPEC_LENGTH_8 [raw]", quantity="none")

3.1.38. PACS Product Level 0 - HPTCVERS

<i>product (type="HPTCVERS", description="HPTCVERS")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfiguration (description="Mission Configuration")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")

DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")

StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineId (description="HSPOT: line ID", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
StringParameter	level (description="Product Level", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
Columns	
table dataset	(name="HPTCVERS", description="Generated from PacketSequence \$Revision: 1.1 \$")
Metadata	
StringParameter	revision (description="PacketSequence Revision from which this data was generated.")
Columns	
LongId	Time (description="Time [microseconds]", quantity="microseconds")
LongId	HD_SPARE_3 (description="HD_SPARE_3 [raw]", quantity="none")
LongId	HD_VERSION_NUMB (description="HD_VERSION_NUMB [raw]", quantity="none")

<i>LongId</i>	HD_LENGTH (description="HD_LENGTH [raw]", quantity="none")
<i>LongId</i>	HD_APID (description="HD_APID [raw]", quantity="none")
<i>LongId</i>	HD_SPARE_1 (description="HD_SPARE_1 [raw]", quantity="none")
<i>DoubleId</i>	HD_PACKET_TYPE (description="HD_PACKET_TYPE [raw]", quantity="none")
<i>LongId</i>	HD_SPARE_2 (description="HD_SPARE_2 [raw]", quantity="none")
<i>LongId</i>	HD_PUS_VERSION (description="HD_PUS_VERSION [raw]", quantity="none")
<i>LongId</i>	HD_SEG_FLAG (description="HD_SEG_FLAG [raw]", quantity="none")
<i>DoubleId</i>	HD_PCKT_SUBTYPE (description="HD_PCKT_SUBTYPE [raw]", quantity="none")
<i>LongId</i>	HD_SRC_SEQ_CTN (description="HD_SRC_SEQ_CTN [raw]", quantity="none")
<i>LongId</i>	HD_DATA_FLAG (description="HD_DATA_FLAG [raw]", quantity="none")
<i>LongId</i>	HD_TIME (description="HD_TIME [raw]", quantity="none")
<i>LongId</i>	HD_SOURCE_TYPE (description="HD_SOURCE_TYPE [raw]", quantity="none")
<i>LongId</i>	PCKT_SEQ_CONTR (description="PCKT_SEQ_CONTR [raw]", quantity="none")
<i>LongId</i>	TC_PACKET_TYPE (description="TC_PACKET_TYPE [raw]", quantity="none")
<i>LongId</i>	TC_PACKET_ID (description="TC_PACKET_ID [raw]", quantity="none")
<i>LongId</i>	TC_PCKT_SUBTYPE (description="TC_PCKT_SUBTYPE [raw]", quantity="none")
<i>LongId</i>	FIRST32BIT_TIME (description="FIRST32BIT_TIME [raw]", quantity="none")
<i>DoubleId</i>	LAST_16BIT_TIME (description="LAST_16BIT_TIME [eng, s]", quantity="none")

3.1.39. PACS Product Level 0 - HPGENHKS

<i>product (type="HPGENHKS", description="HPGENHKS")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")

StringParameter	missionConfiguration (description="Mission Configuration")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")

StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineId (description="HSPOT: line ID", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")

DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
StringParameter	level (description="Product Level", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
Columns	
table dataset	(name="HPGENHKS", description="Generated from PacketSequence \$Revision: 1.1 \$")
Metadata	
StringParameter	revision (description="PacketSequence Revision from which this data was generated.")
Columns	
LongId	Time (description="Time [microseconds]", quantity="microseconds")
DoubleId	DM_CAL_SRC_TEMP (description="DM_CAL_SRC_TEMP [eng, K]", quantity="none")
StringId	DM_SEQ_ERR_NS (description="DM_SEQ_ERR_NS", quantity="none")
LongId	DM_DBR_ERROR (description="DM_DBR_ERROR [raw]", quantity="none")
StringId	DP_BUFFER_STAT (description="DP_BUFFER_STAT", quantity="none")
DoubleId	BOL_TEMP_TS (description="BOL_TEMP_TS [eng, K]", quantity="none")
StringId	DM_DRR_SENDING (description="DM_DRR_SENDING", quantity="none")
StringId	DM_DRC_LINK (description="DM_DRC_LINK", quantity="none")
LongId	DM_HKD_SPARE3 (description="DM_HKD_SPARE3 [raw]", quantity="none")
StringId	DM_DBR_LINK (description="DM_DBR_LINK", quantity="none")
StringId	DM_BPE_ERR_NS (description="DM_BPE_ERR_NS", quantity="none")
StringId	DP_EV_BOL_I_FPU (description="DP_EV_BOL_I_FPU", quantity="none")
StringId	DP_SPUL_CMD (description="DP_SPUL_CMD", quantity="none")

<i>StringId</i>	DM_DRR_ERR_NS (description="DM_DRR_ERR_NS", quantity="none")
<i>LongId</i>	DM_BLUE_PAC_ENC (description="DM_BLUE_PAC_ENC [raw]", quantity="none")
<i>DoubleId</i>	DM_SPU_VCC_CUR (description="DM_SPU_VCC_CUR [eng, A]", quantity="none")
<i>LongId</i>	DM_HK_CTRL_STAT (description="DM_HK_CTRL_STAT [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_T_FPU (description="DP_EV_BOL_T_FPU", quantity="none")
<i>LongId</i>	DM_PM_DF_IND (description="DM_PM_DF_IND [raw]", quantity="none")
<i>LongId</i>	DM_HKCO_ERROR (description="DM_HKCO_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_DPUS_SPARE4 (description="DM_DPUS_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DM_HKD_SPARE1 (description="DM_HKD_SPARE1 [raw]", quantity="none")
<i>LongId</i>	DM_DPU_REC_STAT (description="DM_DPU_REC_STAT [raw]", quantity="none")
<i>StringId</i>	DP_OBCP_MANAGER (description="DP_OBCP_MANAGER", quantity="none")
<i>LongId</i>	HD_SPARE_3 (description="HD_SPARE_3 [raw]", quantity="none")
<i>StringId</i>	DM_BC_ERR_NS (description="DM_BC_ERR_NS", quantity="none")
<i>StringId</i>	DP_DEC_LINK (description="DP_DEC_LINK", quantity="none")
<i>LongId</i>	HD_VERSION_NUMB (description="HD_VERSION_NUMB [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_SP (description="BOL_TEMP_SP [eng, K]", quantity="none")
<i>StringId</i>	DP_SPUS_HK (description="DP_SPUS_HK", quantity="none")
<i>LongId</i>	DM_DBR_SPARE2 (description="DM_DBR_SPARE2 [raw]", quantity="none")
<i>LongId</i>	DM_HKCO_SPARE5 (description="DM_HKCO_SPARE5 [raw]", quantity="none")
<i>StringId</i>	DM_HKCO_TASK_AL (description="DM_HKCO_TASK_AL", quantity="none")
<i>LongId</i>	HD_SPARE_1 (description="HD_SPARE_1 [raw]", quantity="none")
<i>LongId</i>	HD_PACKET_TYPE (description="HD_PACKET_TYPE [raw]", quantity="none")
<i>LongId</i>	HD_SPARE_2 (description="HD_SPARE_2 [raw]", quantity="none")
<i>LongId</i>	SPS_VID (description="SPS_VID [raw]", quantity="none")
<i>LongId</i>	SPS_MEM_CNTS (description="SPS_MEM_CNTS [raw]", quantity="none")
<i>StringId</i>	DM_FPU_GR_TS_ST (description="DM_FPU_GR_TS_ST", quantity="none")
<i>StringId</i>	DM_BC_TASK_AL (description="DM_BC_TASK_AL", quantity="none")

<i>StringId</i>	DM_BC_LINK (description="DM_BC_LINK", quantity="none")
<i>LongId</i>	DM_BR_ERROR (description="DM_BR_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_FPU_FWP_TS_S (description="DM_FPU_FWP_TS_S", quantity="none")
<i>StringId</i>	DP_SPUS_CMD (description="DP_SPUS_CMD", quantity="none")
<i>DoubleId</i>	DM_DSP_TEMP (description="DM_DSP_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_BR_SIM_TIME (description="DM_BR_SIM_TIME", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_4 (description="BOL_TEMP_R_4 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_5 (description="BOL_TEMP_R_5 [eng, degC]", quantity="none")
<i>StringId</i>	SPS_DMC_ERROR (description="SPS_DMC_ERROR", quantity="none")
<i>StringId</i>	DP_SPUL_LINK (description="DP_SPUL_LINK", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_1 (description="BOL_TEMP_R_1 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_2 (description="BOL_TEMP_R_2 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_3 (description="BOL_TEMP_R_3 [eng, degC]", quantity="none")
<i>StringId</i>	DM_SW_ALIVE (description="DM_SW_ALIVE", quantity="none")
<i>StringId</i>	DM_SEQ_RUNNING (description="DM_SEQ_RUNNING", quantity="none")
<i>StringId</i>	DM_DPUR_TASK_AL (description="DM_DPUR_TASK_AL", quantity="none")
<i>DoubleId</i>	LAST_16BIT_TIME (description="LAST_16BIT_TIME [eng, s]", quantity="none")
<i>StringId</i>	DM_DRR_TASK_WR (description="DM_DRR_TASK_WR", quantity="none")
<i>DoubleId</i>	BOL_TEMP_B_3 (description="BOL_TEMP_B_3 [eng, degC]", quantity="none")
<i>StringId</i>	DM_DBR_TASK_AL (description="DM_DBR_TASK_AL", quantity="none")
<i>LongId</i>	DP_GEN_TM_LOST (description="DP_GEN_TM_LOST [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_B_2 (description="BOL_TEMP_B_2 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_B_1 (description="BOL_TEMP_B_1 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_DAQ (description="BOL_TEMP_DAQ [eng, degC]", quantity="none")
<i>StringId</i>	DP_TEST_MODE (description="DP_TEST_MODE", quantity="none")
<i>LongId</i>	DM_CHOP_CUR_POS (description="DM_CHOP_CUR_POS [raw]", quantity="none")

<i>StringId</i>	DM_RPE_TASK_AL (description="DM_RPE_TASK_AL", quantity="none")
<i>DoubleId</i>	DM_FW_PHOT_TEMP (description="DM_FW_PHOT_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DP_BLUE_SCIENCE (description="DP_BLUE_SCIENCE", quantity="none")
<i>StringId</i>	DP_UNIT (description="DP_UNIT", quantity="none")
<i>StringId</i>	DP_DMC_CMD (description="DP_DMC_CMD", quantity="none")
<i>LongId</i>	DM_TIME_2 (description="DM_TIME_2 [raw]", quantity="none")
<i>LongId</i>	DM_DRR_ERROR (description="DM_DRR_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_TIME_1 (description="DM_TIME_1 [raw]", quantity="none")
<i>LongId</i>	DP_SPUS_LINK_PE (description="DP_SPUS_LINK_PE [raw]", quantity="none")
<i>LongId</i>	DM_BR_SPARE2 (description="DM_BR_SPARE2 [raw]", quantity="none")
<i>LongId</i>	DM_PM_SF_IND (description="DM_PM_SF_IND [raw]", quantity="none")
<i>LongId</i>	DM_BPE_ERROR (description="DM_BPE_ERROR [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_EV (description="BOL_TEMP_EV [eng, K]", quantity="none")
<i>LongId</i>	DP_COM_SPL_PACK (description="DP_COM_SPL_PACK [raw]", quantity="none")
<i>StringId</i>	DM_DBC_LINK (description="DM_DBC_LINK", quantity="none")
<i>StringId</i>	DM_DPUS_ERR_NS (description="DM_DPUS_ERR_NS", quantity="none")
<i>StringId</i>	DM_FWPH_CUR_POS (description="DM_FWPH_CUR_POS", quantity="none")
<i>LongId</i>	DM_DPUS_ERROR (description="DM_DPUS_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_HKD_TASK_WR (description="DM_HKD_TASK_WR", quantity="none")
<i>StringId</i>	DP_STABLE_SPS (description="DP_STABLE_SPS", quantity="none")
<i>LongId</i>	DM_DECB_CTRL_PA (description="DM_DECB_CTRL_PA [raw]", quantity="none")
<i>LongId</i>	DM_BOL_READ_CNT (description="DM_BOL_READ_CNT [raw]", quantity="none")
<i>StringId</i>	DM_HKCO_ERR_NS (description="DM_HKCO_ERR_NS", quantity="none")
<i>LongId</i>	FIRST32BIT_TIME (description="FIRST32BIT_TIME [raw]", quantity="none")
<i>StringId</i>	DM_HKD_DIAGMODE (description="DM_HKD_DIAGMODE", quantity="none")
<i>StringId</i>	DP_1553_HANDLER (description="DP_1553_HANDLER", quantity="none")

<i>StringId</i>	DM_DRC_TASK_AL (description="DM_DRC_TASK_AL", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF12 (description="DM_LAST_ER_BF12 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF13 (description="DM_LAST_ER_BF13 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF14 (description="DM_LAST_ER_BF14 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF15 (description="DM_LAST_ER_BF15 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF10 (description="DM_LAST_ER_BF10 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF11 (description="DM_LAST_ER_BF11 [raw]", quantity="none")
<i>LongId</i>	DM_RPE_ERROR (description="DM_RPE_ERROR [raw]", quantity="none")
<i>DoubleId</i>	DM_PSC_V2 (description="DM_PSC_V2 [eng, mA]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF16 (description="DM_LAST_ER_BF16 [raw]", quantity="none")
<i>DoubleId</i>	DM_PSC_V1 (description="DM_PSC_V1 [eng, A]", quantity="none")
<i>DoubleId</i>	DM_PSC_V4 (description="DM_PSC_V4 [eng, A]", quantity="none")
<i>StringId</i>	DP_EEPROM_PROT (description="DP_EEPROM_PROT", quantity="none")
<i>DoubleId</i>	DM_PSC_V3 (description="DM_PSC_V3 [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_SPU_PS_TEMP (description="DM_SPU_PS_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_HKD_ERR_NS (description="DM_HKD_ERR_NS", quantity="none")
<i>LongId</i>	DP_COM_DMC (description="DP_COM_DMC [raw]", quantity="none")
<i>StringId</i>	DP_OBCP_RUN (description="DP_OBCP_RUN", quantity="none")
<i>StringId</i>	DP_IRQ3_TASK (description="DP_IRQ3_TASK", quantity="none")
<i>DoubleId</i>	DM_FPU_T2_TEMP (description="DM_FPU_T2_TEMP [eng, K]", quantity="none")
<i>DoubleId</i>	DM_REF_VOLT_0V (description="DM_REF_VOLT_0V [eng, V]", quantity="none")
<i>StringId</i>	DM_FPU_S1_TS_ST (description="DM_FPU_S1_TS_ST", quantity="none")
<i>LongId</i>	SID (description="SID [raw]", quantity="none")
<i>LongId</i>	SPS_PIX (description="SPS_PIX [raw]", quantity="none")
<i>DoubleId</i>	BOL_HEATER_FPU (description="BOL_HEATER_FPU [eng, A]", quantity="none")
<i>StringId</i>	DM_BPE_TASK_AL (description="DM_BPE_TASK_AL", quantity="none")

<i>StringId</i>	DM_FPU_CH_TS_ST (description="DM_FPU_CH_TS_ST", quantity="none")
<i>DoubleId</i>	DM_CPU_LOAD (description="DM_CPU_LOAD [eng, %]", quantity="none")
<i>LongId</i>	DM_BBID (description="DM_BBID [raw]", quantity="none")
<i>StringId</i>	DP_STABLE_SPL (description="DP_STABLE_SPL", quantity="none")
<i>StringId</i>	DM_DBR_ERR_NS (description="DM_DBR_ERR_NS", quantity="none")
<i>StringId</i>	DM_DPUR_ERR_NS (description="DM_DPUR_ERR_NS", quantity="none")
<i>StringId</i>	DM_FPU_FWS_TS_S (description="DM_FPU_FWS_TS_S", quantity="none")
<i>StringId</i>	SPS_DMC_LINK (description="SPS_DMC_LINK", quantity="none")
<i>DoubleId</i>	DM_FPU_T1_TEMP (description="DM_FPU_T1_TEMP [eng, K]", quantity="none")
<i>LongId</i>	SPL_VID (description="SPL_VID [raw]", quantity="none")
<i>LongId</i>	DM_BOL_CTRL_PAC (description="DM_BOL_CTRL_PAC [raw]", quantity="none")
<i>DoubleId</i>	BOL_HEAT_SP_SWT (description="BOL_HEAT_SP_SWT [eng, A]", quantity="none")
<i>LongId</i>	DP_COM_DMC_PACK (description="DP_COM_DMC_PACK [raw]", quantity="none")
<i>LongId</i>	DM_DECR_CTRL_PA (description="DM_DECR_CTRL_PA [raw]", quantity="none")
<i>LongId</i>	DM_BLUE_ENC_PAC (description="DM_BLUE_ENC_PAC [raw]", quantity="none")
<i>LongId</i>	DP_SPUL_LINK_DE (description="DP_SPUL_LINK_DE [raw]", quantity="none")
<i>DoubleId</i>	DM_SPU_VP_CUR (description="DM_SPU_VP_CUR [eng, mA]", quantity="none")
<i>LongId</i>	HD_APIID (description="HD_APIID [raw]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_2R (description="BOL_I_HEATER_2R [eng, A]", quantity="none")
<i>LongId</i>	DM_DRC_SPARE3 (description="DM_DRC_SPARE3 [raw]", quantity="none")
<i>LongId</i>	HD_SEG_FLAG (description="HD_SEG_FLAG [raw]", quantity="none")
<i>StringId</i>	DP_STABLE_DEC (description="DP_STABLE_DEC", quantity="none")
<i>LongId</i>	DM_BOL_STATUS (description="DM_BOL_STATUS [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ERR_ID (description="DM_LAST_ERR_ID [raw]", quantity="none")
<i>LongId</i>	DM_B_SPEC_READ (description="DM_B_SPEC_READ [raw]", quantity="none")

<i>LongId</i>	DM_RED_ENC_PAC (description="DM_RED_ENC_PAC [raw]", quantity="none")
<i>StringId</i>	DP_EV_DEC_SPC (description="DP_EV_DEC_SPC", quantity="none")
<i>DoubleId</i>	DM_SPU_VCC_VOL (description="DM_SPU_VCC_VOL [eng, V]", quantity="none")
<i>StringId</i>	DP_SPL_LINK (description="DP_SPL_LINK", quantity="none")
<i>LongId</i>	DM_IRS_CNT (description="DM_IRS_CNT [raw]", quantity="none")
<i>DoubleId</i>	DM_CHOPPER_TEMP (description="DM_CHOPPER_TEMP [eng, K]", quantity="none")
<i>StringId</i>	SPL_DMC_LINK (description="SPL_DMC_LINK", quantity="none")
<i>LongId</i>	DM_SW_SPARE5 (description="DM_SW_SPARE5 [raw]", quantity="none")
<i>LongId</i>	DP_COM_SPS_NACK (description="DP_COM_SPS_NACK [raw]", quantity="none")
<i>StringId</i>	DM_BR_TASK_WR (description="DM_BR_TASK_WR", quantity="none")
<i>LongId</i>	DM_BPE_SPARE4 (description="DM_BPE_SPARE4 [raw]", quantity="none")
<i>StringId</i>	DM_DBR_SENDING (description="DM_DBR_SENDING", quantity="none")
<i>LongId</i>	DP_DEC_LINK_PE (description="DP_DEC_LINK_PE [raw]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_1R (description="BOL_I_HEATER_1R [eng, A]", quantity="none")
<i>LongId</i>	DP_TC_LOST (description="DP_TC_LOST [raw]", quantity="none")
<i>StringId</i>	DP_RED_SCIENCE (description="DP_RED_SCIENCE", quantity="none")
<i>DoubleId</i>	SPS_CPUWORKLOAD (description="SPS_CPUWORKLOAD [eng, %]", quantity="none")
<i>StringId</i>	DM_DBC_TASK_WR (description="DM_DBC_TASK_WR", quantity="none")
<i>LongId</i>	DP_COM_SPUS (description="DP_COM_SPUS [raw]", quantity="none")
<i>LongId</i>	HD_SRC_SEQ_CTN (description="HD_SRC_SEQ_CTN [raw]", quantity="none")
<i>StringId</i>	DM_DPUR_TASK_WR (description="DM_DPUR_TASK_WR", quantity="none")
<i>LongId</i>	DP_COM_SPUL (description="DP_COM_SPUL [raw]", quantity="none")
<i>StringId</i>	DM_SEQ_TASK_AL (description="DM_SEQ_TASK_AL", quantity="none")
<i>DoubleId</i>	BOL_TEMP_SP_SWT (description="BOL_TEMP_SP_SWT [eng, K]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B2 (description="BOL_I_HEATER_B2 [eng, A]", quantity="none")

<i>DoubleId</i>	BOL_I_HEATER_B3 (description="BOL_I_HEATER_B3 [eng, A]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B4 (description="BOL_I_HEATER_B4 [eng, A]", quantity="none")
<i>StringId</i>	DM_RPE_LINK (description="DM_RPE_LINK", quantity="none")
<i>LongId</i>	DM_SEQ_STATUS (description="DM_SEQ_STATUS [raw]", quantity="none")
<i>LongId</i>	DM_DBC_SPARE3 (description="DM_DBC_SPARE3 [raw]", quantity="none")
<i>LongId</i>	DM_RPE_SPARE4 (description="DM_RPE_SPARE4 [raw]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B1 (description="BOL_I_HEATER_B1 [eng, A]", quantity="none")
<i>StringId</i>	DM_RPE_TASK_WR (description="DM_RPE_TASK_WR", quantity="none")
<i>StringId</i>	DP_WHICH_OBCP (description="DP_WHICH_OBCP", quantity="none")
<i>StringId</i>	DP_1553CHANNEL (description="DP_1553CHANNEL", quantity="none")
<i>LongId</i>	DM_DECB_CTRL_ST (description="DM_DECB_CTRL_ST [raw]", quantity="none")
<i>StringId</i>	DM_DBC_POWER (description="DM_DBC_POWER", quantity="none")
<i>LongId</i>	DP_COM_DMC_NACK (description="DP_COM_DMC_NACK [raw]", quantity="none")
<i>StringId</i>	DM_DRC_POWER (description="DM_DRC_POWER", quantity="none")
<i>StringId</i>	DP_COUNTER_SPS (description="DP_COUNTER_SPS", quantity="none")
<i>StringId</i>	DM_BR_TASK_AL (description="DM_BR_TASK_AL", quantity="none")
<i>LongId</i>	DM_DPUR_SPARE4 (description="DM_DPUR_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DP_SW_SUBVERS_ID (description="DP_SW_SUBVERS_ID [raw]", quantity="none")
<i>StringId</i>	DM_BPE_LINK (description="DM_BPE_LINK", quantity="none")
<i>LongId</i>	DP_COM_REC_DPU (description="DP_COM_REC_DPU [raw]", quantity="none")
<i>StringId</i>	DM_DPUS_TASK_WR (description="DM_DPUS_TASK_WR", quantity="none")
<i>StringId</i>	DM_DBC_TASK_AL (description="DM_DBC_TASK_AL", quantity="none")
<i>LongId</i>	DM_R_SPEC_READ (description="DM_R_SPEC_READ [raw]", quantity="none")
<i>LongId</i>	DM_DM_SF_IND (description="DM_DM_SF_IND [raw]", quantity="none")
<i>StringId</i>	DM_SEQ_IDLE (description="DM_SEQ_IDLE", quantity="none")

<i>LongId</i>	DM_RED_PAC_ENC (description="DM_RED_PAC_ENC [raw]", quantity="none")
<i>LongId</i>	DM_FPU_T_SEN_ST (description="DM_FPU_T_SEN_ST [raw]", quantity="none")
<i>StringId</i>	DM_HKD_TASK_AL (description="DM_HKD_TASK_AL", quantity="none")
<i>LongId</i>	DM_DECB_REC_STA (description="DM_DECB_REC_STA [raw]", quantity="none")
<i>LongId</i>	DM_BOL_CTRL_STA (description="DM_BOL_CTRL_STA [raw]", quantity="none")
<i>StringId</i>	DM_DRC_ERR_NS (description="DM_DRC_ERR_NS", quantity="none")
<i>DoubleId</i>	DM_REF_VOLT_5V (description="DM_REF_VOLT_5V [eng, V]", quantity="none")
<i>StringId</i>	DP_CONTROLLER (description="DP_CONTROLLER", quantity="none")
<i>LongId</i>	DM_DPU_SEN_STAT (description="DM_DPU_SEN_STAT [raw]", quantity="none")
<i>LongId</i>	DP_COM_SPL_NACK (description="DP_COM_SPL_NACK [raw]", quantity="none")
<i>LongId</i>	SPL_CI (description="SPL_CI [raw]", quantity="none")
<i>LongId</i>	HD_SOURCE_TYPE (description="HD_SOURCE_TYPE [raw]", quantity="none")
<i>DoubleId</i>	BOL_HEAT_EV_SWT (description="BOL_HEAT_EV_SWT [eng, A]", quantity="none")
<i>LongId</i>	DM_HKD_ERROR (description="DM_HKD_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_SW_GLOBAL_ST (description="DM_SW_GLOBAL_ST [raw]", quantity="none")
<i>StringId</i>	DM_BR_ERR_NS (description="DM_BR_ERR_NS", quantity="none")
<i>DoubleId</i>	DP_T (description="DP_T [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_PSU_2 (description="BOL_TEMP_PSU_2 [eng, degC]", quantity="none")
<i>LongId</i>	DM_DECB_REC_PAC (description="DM_DECB_REC_PAC [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_PSU_1 (description="BOL_TEMP_PSU_1 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_7 (description="BOL_PWR_ANA_P_7 [eng, V]", quantity="none")
<i>LongId</i>	DP_SPUL_LINK_PE (description="DP_SPUL_LINK_PE [raw]", quantity="none")
<i>StringId</i>	DP_BURST_MODE (description="DP_BURST_MODE", quantity="none")
<i>LongId</i>	DM_DPU_SEND_PAC (description="DM_DPU_SEND_PAC [raw]", quantity="none")
<i>StringId</i>	DM_FPU_S2_TS_ST (description="DM_FPU_S2_TS_ST", quantity="none")

<i>StringId</i>	DP_DMC_LINK (description="DP_DMC_LINK", quantity="none")
<i>LongId</i>	DM_VID (description="DM_VID [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF5 (description="DM_LAST_ER_BF5 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF6 (description="DM_LAST_ER_BF6 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF3 (description="DM_LAST_ER_BF3 [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_V_PWR (description="DP_EV_BOL_V_PWR", quantity="none")
<i>LongId</i>	SPL_PIX (description="SPL_PIX [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF4 (description="DM_LAST_ER_BF4 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF9 (description="DM_LAST_ER_BF9 [raw]", quantity="none")
<i>LongId</i>	DM_BOL_REC_STAT (description="DM_BOL_REC_STAT [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF7 (description="DM_LAST_ER_BF7 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF8 (description="DM_LAST_ER_BF8 [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_SP2 (description="DP_EV_BOL_I_SP2", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF1 (description="DM_LAST_ER_BF1 [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_BIAS (description="DP_EV_BOL_BIAS", quantity="none")
<i>LongId</i>	DM_HK_DIAG_STAT (description="DM_HK_DIAG_STAT [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF2 (description="DM_LAST_ER_BF2 [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_SP1 (description="DP_EV_BOL_I_SP1", quantity="none")
<i>StringId</i>	DP_COUNTER_DEC (description="DP_COUNTER_DEC", quantity="none")
<i>LongId</i>	DP_STATUS (description="DP_STATUS [raw]", quantity="none")
<i>StringId</i>	DP_EVENT_DEC (description="DP_EVENT_DEC", quantity="none")
<i>LongId</i>	DM_DPUR_ERROR (description="DM_DPUR_ERROR [raw]", quantity="none")
<i>StringId</i>	DP_SPS_LINK (description="DP_SPS_LINK", quantity="none")
<i>LongId</i>	DP_COM_REJ_DPU (description="DP_COM_REJ_DPU [raw]", quantity="none")
<i>LongId</i>	DM_GRAT_CUR_POS (description="DM_GRAT_CUR_POS [raw]", quantity="none")
<i>LongId</i>	DM_DM_DF_IND (description="DM_DM_DF_IND [raw]", quantity="none")

<i>StringId</i>	DM_RPE_ERR_NS (description="DM_RPE_ERR_NS", quantity="none")
<i>LongId</i>	DM_OBSID (description="DM_OBSID [raw]", quantity="none")
<i>StringId</i>	DP_HK_MONITOR (description="DP_HK_MONITOR", quantity="none")
<i>LongId</i>	DM_DECR_REC_STA (description="DM_DECR_REC_STA [raw]", quantity="none")
<i>StringId</i>	DM_DBC_ERR_NS (description="DM_DBC_ERR_NS", quantity="none")
<i>DoubleId</i>	DM_SPU_PSU_P15V (description="DM_SPU_PSU_P15V [eng, V]", quantity="none")
<i>DoubleId</i>	DM_SPU_LWL_TEMP (description="DM_SPU_LWL_TEMP [eng, K]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_5 (description="DM_CUSTOM_ENT_5 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_4 (description="DM_CUSTOM_ENT_4 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_7 (description="DM_CUSTOM_ENT_7 [raw]", quantity="none")
<i>LongId</i>	DP_DEC_LINK_DE (description="DP_DEC_LINK_DE [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_6 (description="DM_CUSTOM_ENT_6 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_9 (description="DM_CUSTOM_ENT_9 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_8 (description="DM_CUSTOM_ENT_8 [raw]", quantity="none")
<i>StringId</i>	DP_HK_CHK (description="DP_HK_CHK", quantity="none")
<i>LongId</i>	DM_DECR_CTRL_ST (description="DM_DECR_CTRL_ST [raw]", quantity="none")
<i>LongId</i>	HD_DATA_FLAG (description="HD_DATA_FLAG [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_1 (description="DM_CUSTOM_ENT_1 [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_T_WE (description="DP_EV_BOL_T_WE", quantity="none")
<i>StringId</i>	DM_DRC_TASK_WR (description="DM_DRC_TASK_WR", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_3 (description="DM_CUSTOM_ENT_3 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_2 (description="DM_CUSTOM_ENT_2 [raw]", quantity="none")
<i>StringId</i>	DM_DPUS_LINK (description="DM_DPUS_LINK", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_7 (description="BOL_PWR_DIG_7 [eng, V]", quantity="none")
<i>LongId</i>	DM_BC_SPARE4 (description="DM_BC_SPARE4 [raw]", quantity="none")

<i>StringId</i>	DM_DBR_SIM_TIME (description="DM_DBR_SIM_TIME", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_RO (description="DP_EV_BOL_I_RO", quantity="none")
<i>StringId</i>	DM_SW_COPY_OBS (description="DM_SW_COPY_OBS", quantity="none")
<i>StringId</i>	DM_SEQ_TASK_WR (description="DM_SEQ_TASK_WR", quantity="none")
<i>StringId</i>	DM_SW_ERR (description="DM_SW_ERR", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU_ST (description="BOL_TEMP_FPU_ST [eng, K]", quantity="none")
<i>StringId</i>	DM_FWSP_CUR_POS (description="DM_FWSP_CUR_POS", quantity="none")
<i>StringId</i>	DM_BR_SENDING (description="DM_BR_SENDING", quantity="none")
<i>StringId</i>	DP_EVENT_SPU (description="DP_EVENT_SPU", quantity="none")
<i>StringId</i>	DM_DPUS_TASK_AL (description="DM_DPUS_TASK_AL", quantity="none")
<i>StringId</i>	DM_DPUR_LINK (description="DM_DPUR_LINK", quantity="none")
<i>DoubleId</i>	DP_VOL_15P (description="DP_VOL_15P [eng, V]", quantity="none")
<i>StringId</i>	DM_FPU_CS_TS_ST (description="DM_FPU_CS_TS_ST", quantity="none")
<i>DoubleId</i>	DM_FW_SPEC_TEMP (description="DM_FW_SPEC_TEMP [eng, K]", quantity="none")
<i>DoubleId</i>	DP_VOL_15N (description="DP_VOL_15N [eng, V]", quantity="none")
<i>StringId</i>	DM_BR_LINK (description="DM_BR_LINK", quantity="none")
<i>StringId</i>	DM_HKCO_TASK_WR (description="DM_HKCO_TASK_WR", quantity="none")
<i>LongId</i>	SPS_CI (description="SPS_CI [raw]", quantity="none")
<i>StringId</i>	DM_DRR_TASK_AL (description="DM_DRR_TASK_AL", quantity="none")
<i>DoubleId</i>	DP_WORK_LOAD (description="DP_WORK_LOAD [eng, %]", quantity="none")
<i>LongId</i>	DP_HK_LOST (description="DP_HK_LOST [raw]", quantity="none")
<i>DoubleId</i>	DM_GRATING_TEMP (description="DM_GRATING_TEMP [eng, K]", quantity="none")
<i>LongId</i>	HD_LENGTH (description="HD_LENGTH [raw]", quantity="none")
<i>LongId</i>	DP_COM_SPS_PACK (description="DP_COM_SPS_PACK [raw]", quantity="none")
<i>LongId</i>	DP_1_8_REJECTED (description="DP_1_8_REJECTED [raw]", quantity="none")
<i>LongId</i>	DM_DRR_SPARE2 (description="DM_DRR_SPARE2 [raw]", quantity="none")

<i>LongId</i>	DM_SEQ_ERROR (description="DM_SEQ_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_DRC_ERROR (description="DM_DRC_ERROR [raw]", quantity="none")
<i>StringId</i>	DP_1355_LINK (description="DP_1355_LINK", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU1 (description="BOL_TEMP_FPU1 [eng, K]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU2 (description="BOL_TEMP_FPU2 [eng, K]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_EV_SWT (description="BOL_TEMP_EV_SWT [eng, K]", quantity="none")
<i>LongId</i>	HD_PCKT_SUBTYPE (description="HD_PCKT_SUBTYPE [raw]", quantity="none")
<i>LongId</i>	DM_DBC_ERROR (description="DM_DBC_ERROR [raw]", quantity="none")
<i>LongId</i>	DP_1_2_REJECTED (description="DP_1_2_REJECTED [raw]", quantity="none")
<i>StringId</i>	DM_BPE_TASK_WR (description="DM_BPE_TASK_WR", quantity="none")
<i>StringId</i>	DP_AF_24_SPARE (description="DP_AF_24_SPARE", quantity="none")
<i>LongId</i>	DM_SW_ERROR (description="DM_SW_ERROR [raw]", quantity="none")
<i>DoubleId</i>	DM_DCDC_TEMP (description="DM_DCDC_TEMP [eng, K]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT10 (description="DM_CUSTOM_ENT10 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_7 (description="BOL_PWR_ANA_N_7 [eng, V]", quantity="none")
<i>StringId</i>	DP_1355_HANDLER (description="DP_1355_HANDLER", quantity="none")
<i>StringId</i>	SPL_DMC_ERROR (description="SPL_DMC_ERROR", quantity="none")
<i>DoubleId</i>	DM_SPU_SWL_TEMP (description="DM_SPU_SWL_TEMP [eng, K]", quantity="none")
<i>LongId</i>	DM_HK_DIAG_PERI (description="DM_HK_DIAG_PERI [raw]", quantity="none")
<i>StringId</i>	DM_DRR_SIM_TIME (description="DM_DRR_SIM_TIME", quantity="none")
<i>LongId</i>	HD_PUS_VERSION (description="HD_PUS_VERSION [raw]", quantity="none")
<i>LongId</i>	DP_SPARE (description="DP_SPARE [raw]", quantity="none")
<i>LongId</i>	DP_SW_VERS_ID (description="DP_SW_VERS_ID [raw]", quantity="none")
<i>StringId</i>	DP_SPUL_HK (description="DP_SPUL_HK", quantity="none")
<i>LongId</i>	DM_BOL_REC_PAC (description="DM_BOL_REC_PAC [raw]", quantity="none")

<i>StringId</i>	DP_COUNTER_SPEC (description="DP_COUNTER_SPEC", quantity="none")
<i>DoubleId</i>	DP_VOL_25P (description="DP_VOL_25P [eng, V]", quantity="none")
<i>LongId</i>	DP_EVENT_LOST (description="DP_EVENT_LOST [raw]", quantity="none")
<i>StringId</i>	DM_DRR_LINK (description="DM_DRR_LINK", quantity="none")
<i>DoubleId</i>	SPL_CPUWORKLOAD (description="SPL_CPUWORKLOAD [eng, %]", quantity="none")
<i>StringId</i>	DM_DBR_TASK_WR (description="DM_DBR_TASK_WR", quantity="none")
<i>StringId</i>	DP_SPUS_LINK (description="DP_SPUS_LINK", quantity="none")
<i>StringId</i>	DP_EVENT_DPU (description="DP_EVENT_DPU", quantity="none")
<i>LongId</i>	DM_SEQ_SPARE2 (description="DM_SEQ_SPARE2 [raw]", quantity="none")
<i>DoubleId</i>	DP_VOL_5P (description="DP_VOL_5P [eng, V]", quantity="none")
<i>LongId</i>	DM_DPU_REC_PAC (description="DM_DPU_REC_PAC [raw]", quantity="none")
<i>StringId</i>	DP_COUNTER_SPL (description="DP_COUNTER_SPL", quantity="none")
<i>LongId</i>	DM_SEQ_SPARE1 (description="DM_SEQ_SPARE1 [raw]", quantity="none")
<i>StringId</i>	DM_BC_TASK_WR (description="DM_BC_TASK_WR", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_HEA (description="DP_EV_BOL_I_HEA", quantity="none")
<i>StringId</i>	DP_INIT (description="DP_INIT", quantity="none")
<i>LongId</i>	SPL_MEM_CNTS (description="SPL_MEM_CNTS [raw]", quantity="none")
<i>DoubleId</i>	BOL_HEATER_SP (description="BOL_HEATER_SP [eng, A]", quantity="none")
<i>StringId</i>	DP_COUNTER_PHOT (description="DP_COUNTER_PHOT", quantity="none")
<i>LongId</i>	DP_AF_STATUS (description="DP_AF_STATUS [raw]", quantity="none")
<i>LongId</i>	DM_DECR_REC_PAC (description="DM_DECR_REC_PAC [raw]", quantity="none")
<i>LongId</i>	DP_SPUS_LINK_DE (description="DP_SPUS_LINK_DE [raw]", quantity="none")
<i>StringId</i>	DP_TM_RATE (description="DP_TM_RATE", quantity="none")
<i>StringId</i>	DP_DMC_HK (description="DP_DMC_HK", quantity="none")
<i>LongId</i>	DM_BC_ERROR (description="DM_BC_ERROR [raw]", quantity="none")

3.1.40. PACS Product Level 0 - DecMec Data Spectrometer blue

<i>product (type="HPSDMCBS", description="DecMec Data Spectrometer blue")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
StringParameter	level (description="Product Level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")

DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")

StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	IcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineId (description="HSPOT: line ID", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
<i>Columns</i>	
<i>table dataset</i>	(name="DmcHeader", description="Status")
<i>Metadata</i>	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
LongParameter	DIM2 (description="Number of measures per status parameter")
<i>Columns</i>	

<i>Int1d</i>	RESETINDEX (description="Indicates the reset index of the status parameters", quantity="none")
<i>Int1d</i>	OBSID (description="Identifier of the observation", quantity="none")
<i>Int1d</i>	BBID (description="Building block type", quantity="none")
<i>Int2d</i>	LBL (description="Label", quantity="none")
<i>Int2d</i>	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
<i>Int2d</i>	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
<i>Long2d</i>	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
<i>Int2d</i>	VLD (description="Validity flag set by DecMec", quantity="none")
<i>Int2d</i>	CPR (description="Chopper position", quantity="none")
<i>Int2d</i>	WPR (description="Filter wheel Position", quantity="none")
<i>Int2d</i>	GPR (description="Grating Position", quantity="none")
<i>Int2d</i>	CRCRMP (description="Readout counter within an integration ramp", quantity="none")
<i>Int2d</i>	RRR (description="Readouts in Ramp", quantity="none")
<i>Int2d</i>	CRDC (description="Current Readout counter since last time reset", quantity="none")
<i>Int2d</i>	CRECR (description="CRE status word", quantity="none")

3.1.41. PACS Product Level 0 - DecMec Data Spectrometer red

<i>product (type="HPSDMCRS", description="DecMec Data Spectrometer red")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
StringParameter	level (description="Product Level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")

StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")

LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	lWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineId (description="HSPOT: line ID", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")

StringParameter	algorithm (description="null", quantity="deg")		
DoubleParameter	compNumber (description="null", quantity="deg")		
StringParameter	compMode (description="null", quantity="deg")		
StringParameter	StartingTime (description="start time of the observation", quantity="deg")		
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")		
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")		
StringParameter	Line1 (description="null", quantity="s")		
StringParameter	Line2 (description="null", quantity="s")		
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")		
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")		
<i>Columns</i>			
<i>table dataset</i>	(name="DmcHeader", description="Status")		
<i>Metadata</i>			
StringParameter	MODE (description="null")		
LongParameter	DIM1 (description="Number of measures per status parameter")		
LongParameter	DIM2 (description="Number of measures per status parameter")		
<i>Columns</i>			
	<i>Int1d</i>	RESETINDEX (description="Indicates the reset index of the status parameters", quantity="none")	
	<i>Int1d</i>	OBSID (description="Identifier of the observation", quantity="none")	
	<i>Int1d</i>	BBID (description="Building block type", quantity="none")	
	<i>Int2d</i>	LBL (description="Label", quantity="none")	
	<i>Int2d</i>	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")	
	<i>Int2d</i>	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")	
	<i>Long2d</i>	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")	
	<i>Int2d</i>	VLD (description="Validity flag set by DecMec", quantity="none")	
	<i>Int2d</i>	CPR (description="Chopper position", quantity="none")	
	<i>Int2d</i>	WPR (description="Filter wheel Position", quantity="none")	
	<i>Int2d</i>	GPR (description="Grating Position", quantity="none")	
	<i>Int2d</i>	CRCRMP (description="Readout counter within an integration ramp", quantity="none")	
	<i>Int2d</i>	RRR (description="Readouts in Ramp", quantity="none")	
	<i>Int2d</i>	CRDC (description="Current Readout counter since last time reset", quantity="none")	
	<i>Int2d</i>	CRECR (description="CRE status word", quantity="none")	

3.1.42. PACS Product Level 0 - Fitted Data Spectrometer blue

<i>product (type="HPSFITBS", description="Fitted Data Spectrometer blue")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product Level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")

StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")

BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineId (description="HSPOT: line ID", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")

DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
Columns	
array dataset	(description="null")
Metadata	
Columns	
Double3d	(description="null", quantity="none")

3.1.43. PACS Product Level 0 - Fitted Data Spectrometer red

<i>product (type="HPSFITRS", description="Fitted Data Spectrometer red")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product Level")

LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")

StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineId (description="HSPOT: line ID", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")

StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
Columns	
array dataset	(description="null")
Metadata	
Columns	
Double3d	(description="null", quantity="none")

3.1.44. PACS Product Level 0 - HPSHKS

<i>product (type="HPSHKS", description="HPSHKS")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfiguration (description="Mission Configuration")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")

StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")

BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineId (description="HSPOT: line ID", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")

LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
StringParameter	level (description="Product Level", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
Columns	
table dataset	(name="HPSHKS", description="Generated from PacketSequence \$Revision: 1.1 \$")
Metadata	
StringParameter	revision (description="PacketSequence Revision from which this data was generated.")
Columns	
LongId	Time (description="Time [microseconds]", quantity="microseconds")
StringId	DM_SEQ_ERR_NS (description="DM_SEQ_ERR_NS", quantity="none")
StringId	DM_CS1C_COMMUT (description="DM_CS1C_COMMUT", quantity="none")
LongId	DM_FW_SPEC_CTRL (description="DM_FW_SPEC_CTRL [raw]", quantity="none")
DoubleId	DM_DECB_BR_CM_4 (description="DM_DECB_BR_CM_4 [eng, V]", quantity="none")
LongId	DM_DBR_ERROR (description="DM_DBR_ERROR [raw]", quantity="none")
DoubleId	DM_DECB_BR_CM_3 (description="DM_DECB_BR_CM_3 [eng, V]", quantity="none")
StringId	DP_BUFFER_STAT (description="DP_BUFFER_STAT", quantity="none")
DoubleId	BOL_TEMP_TS (description="BOL_TEMP_TS [eng, K]", quantity="none")
LongId	DM_HKD_SPARE3 (description="DM_HKD_SPARE3 [raw]", quantity="none")
DoubleId	DM_DECR_TS_2_2 (description="DM_DECR_TS_2_2 [eng, K]", quantity="none")
StringId	DM_DBR_LINK (description="DM_DBR_LINK", quantity="none")
DoubleId	DM_DECR_TS_2_1 (description="DM_DECR_TS_2_1 [eng, K]", quantity="none")
StringId	DM_BPE_ERR_NS (description="DM_BPE_ERR_NS", quantity="none")
StringId	DP_EV_BOL_I_FPU (description="DP_EV_BOL_I_FPU", quantity="none")
StringId	DM_DRR_ERR_NS (description="DM_DRR_ERR_NS", quantity="none")
DoubleId	DM_SPU_VCC_CUR (description="DM_SPU_VCC_CUR [eng, A]", quantity="none")

<i>LongId</i>	DM_DPUS_SPARE4 (description="DM_DPUS_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DM_HKD_SPARE1 (description="DM_HKD_SPARE1 [raw]", quantity="none")
<i>StringId</i>	DM_CC_SYNCHRO (description="DM_CC_SYNCHRO", quantity="none")
<i>DoubleId</i>	DM_DECB_IGND_4 (description="DM_DECB_IGND_4 [eng, mA]", quantity="none")
<i>LongId</i>	DM_DET_SIM_PER (description="DM_DET_SIM_PER [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_IGND_3 (description="DM_DECB_IGND_3 [eng, mA]", quantity="none")
<i>StringId</i>	DM_BC_ERR_NS (description="DM_BC_ERR_NS", quantity="none")
<i>StringId</i>	DM_GC_POWER (description="DM_GC_POWER", quantity="none")
<i>DoubleId</i>	DM_DECR_IGND_2 (description="DM_DECR_IGND_2 [eng, mA]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_SP (description="BOL_TEMP_SP [eng, K]", quantity="none")
<i>StringId</i>	DP_SPUS_HK (description="DP_SPUS_HK", quantity="none")
<i>StringId</i>	DM_CC_POWER (description="DM_CC_POWER", quantity="none")
<i>DoubleId</i>	DM_DECB_TS_2_3 (description="DM_DECB_TS_2_3 [eng, K]", quantity="none")
<i>StringId</i>	DM_CR2_ST_TE (description="DM_CR2_ST_TE", quantity="none")
<i>StringId</i>	DM_HKCO_TASK_AL (description="DM_HKCO_TASK_AL", quantity="none")
<i>LongId</i>	HD_PACKET_TYPE (description="HD_PACKET_TYPE [raw]", quantity="none")
<i>LongId</i>	SPS_MEM_CNTS (description="SPS_MEM_CNTS [raw]", quantity="none")
<i>LongId</i>	DM_DECR_SR_RB_1 (description="DM_DECR_SR_RB_1 [raw]", quantity="none")
<i>LongId</i>	DM_CHOP_PID_ACC (description="DM_CHOP_PID_ACC [raw]", quantity="none")
<i>LongId</i>	DM_DECR_SR_RB_2 (description="DM_DECR_SR_RB_2 [raw]", quantity="none")
<i>StringId</i>	DM_BSPU_TR_MODE (description="DM_BSPU_TR_MODE", quantity="none")
<i>StringId</i>	DM_FPU_GR_TS_ST (description="DM_FPU_GR_TS_ST", quantity="none")
<i>StringId</i>	DM_BC_TASK_AL (description="DM_BC_TASK_AL", quantity="none")
<i>DoubleId</i>	DM_DECB_TS_2_4 (description="DM_DECB_TS_2_4 [eng, K]", quantity="none")

<i>DoubleId</i>	DM_DECR_AC_CUR (description="DM_DECR_AC_CUR [eng, mA]", quantity="none")
<i>LongId</i>	SPL_OBSID (description="SPL_OBSID [raw]", quantity="none")
<i>StringId</i>	DM_BC_LINK (description="DM_BC_LINK", quantity="none")
<i>LongId</i>	DM_BR_ERROR (description="DM_BR_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_CR1_NDS (description="DM_CR1_NDS", quantity="none")
<i>DoubleId</i>	DM_DECB_VSCP_3 (description="DM_DECB_VSCP_3 [eng, V]", quantity="none")
<i>LongId</i>	DM_DECR_RO_CO_2 (description="DM_DECR_RO_CO_2 [raw]", quantity="none")
<i>StringId</i>	DM_SW_ALIVE (description="DM_SW_ALIVE", quantity="none")
<i>StringId</i>	DM_SEQ_RUNNING (description="DM_SEQ_RUNNING", quantity="none")
<i>StringId</i>	DM_FWPC_POS_A (description="DM_FWPC_POS_A", quantity="none")
<i>DoubleId</i>	DM_DECB_VSCP_4 (description="DM_DECB_VSCP_4 [eng, V]", quantity="none")
<i>LongId</i>	DM_DECR_RO_CO_1 (description="DM_DECR_RO_CO_1 [raw]", quantity="none")
<i>StringId</i>	DM_FWPC_POS_B (description="DM_FWPC_POS_B", quantity="none")
<i>LongId</i>	DM_CC_SPARE4 (description="DM_CC_SPARE4 [raw]", quantity="none")
<i>DoubleId</i>	LAST_16BIT_TIME (description="LAST_16BIT_TIME [eng, s]", quantity="none")
<i>StringId</i>	DM_DRR_TASK_WR (description="DM_DRR_TASK_WR", quantity="none")
<i>StringId</i>	DM_DBR_TASK_AL (description="DM_DBR_TASK_AL", quantity="none")
<i>LongId</i>	DP_GEN_TM_LOST (description="DP_GEN_TM_LOST [raw]", quantity="none")
<i>StringId</i>	DM_FWPC_POWER (description="DM_FWPC_POWER", quantity="none")
<i>DoubleId</i>	DM_DECR_BR_CM_1 (description="DM_DECR_BR_CM_1 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_BR_CM_2 (description="DM_DECR_BR_CM_2 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_IGND_1 (description="DM_DECR_IGND_1 [eng, mA]", quantity="none")
<i>StringId</i>	DM_GC_DOWN (description="DM_GC_DOWN", quantity="none")
<i>DoubleId</i>	DM_DECR_VSCP_1 (description="DM_DECR_VSCP_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_DRR_ERROR (description="DM_DRR_ERROR [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_VDDD_4 (description="DM_DECB_VDDD_4 [eng, V]", quantity="none")

<i>DoubleId</i>	DM_DECR_VSCP_2 (description="DM_DECR_VSCP_2 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECB_VDDD_3 (description="DM_DECB_VDDD_3 [eng, V]", quantity="none")
<i>LongId</i>	DM_FWPC_SPARE4 (description="DM_FWPC_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_RA_CO_3 (description="DM_DECB_RA_CO_3 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_RA_CO_4 (description="DM_DECB_RA_CO_4 [raw]", quantity="none")
<i>LongId</i>	DM_PLL_RES_HI (description="DM_PLL_RES_HI [raw]", quantity="none")
<i>LongId</i>	DM_BR_SPARE2 (description="DM_BR_SPARE2 [raw]", quantity="none")
<i>StringId</i>	DM_SEQ_OPTIONS (description="DM_SEQ_OPTIONS", quantity="none")
<i>LongId</i>	DP_COM_SPL_PACK (description="DP_COM_SPL_PACK [raw]", quantity="none")
<i>StringId</i>	DM_DBC_LINK (description="DM_DBC_LINK", quantity="none")
<i>DoubleId</i>	DM_DECB_V0BIAS3 (description="DM_DECB_V0BIAS3 [eng, V]", quantity="none")
<i>StringId</i>	DM_CR4_ST_SEL (description="DM_CR4_ST_SEL", quantity="none")
<i>StringId</i>	DM_CR4_ST_CRPOW (description="DM_CR4_ST_CRPOW", quantity="none")
<i>DoubleId</i>	DM_DECR_VDDD_2 (description="DM_DECR_VDDD_2 [eng, V]", quantity="none")
<i>StringId</i>	DM_CR1_ST_FL (description="DM_CR1_ST_FL", quantity="none")
<i>DoubleId</i>	DM_DECB_V0BIAS4 (description="DM_DECB_V0BIAS4 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_VDDD_1 (description="DM_DECR_VDDD_1 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_V0V_2 (description="DM_DECR_V0V_2 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_V0V_1 (description="DM_DECR_V0V_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_DPUS_ERROR (description="DM_DPUS_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_HKD_TASK_WR (description="DM_HKD_TASK_WR", quantity="none")
<i>LongId</i>	DM_DECB_CTRL_PA (description="DM_DECB_CTRL_PA [raw]", quantity="none")
<i>LongId</i>	SPL_SUBVERSION (description="SPL_SUBVERSION [raw]", quantity="none")
<i>LongId</i>	DM_BOL_READ_CNT (description="DM_BOL_READ_CNT [raw]", quantity="none")

<i>DoubleId</i>	DM_DECR_FLASH_V (description="DM_DECR_FLASH_V [eng, V]", quantity="none")
<i>StringId</i>	DM_HKCO_ERR_NS (description="DM_HKCO_ERR_NS", quantity="none")
<i>LongId</i>	FIRST32BIT_TIME (description="FIRST32BIT_TIME [raw]", quantity="none")
<i>StringId</i>	DM_HKD_DIAGMODE (description="DM_HKD_DIAGMODE", quantity="none")
<i>StringId</i>	DP_1553_HANDLER (description="DP_1553_HANDLER", quantity="none")
<i>StringId</i>	DM_DRC_TASK_AL (description="DM_DRC_TASK_AL", quantity="none")
<i>LongId</i>	DM_SEQ_LOOP_ID4 (description="DM_SEQ_LOOP_ID4 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF12 (description="DM_LAST_ER_BF12 [raw]", quantity="none")
<i>StringId</i>	DM_FWPC_TASK_WR (description="DM_FWPC_TASK_WR", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF13 (description="DM_LAST_ER_BF13 [raw]", quantity="none")
<i>LongId</i>	DM_FWGRAT_HALLA (description="DM_FWGRAT_HALLA [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF14 (description="DM_LAST_ER_BF14 [raw]", quantity="none")
<i>LongId</i>	DM_FWGRAT_HALLB (description="DM_FWGRAT_HALLB [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF15 (description="DM_LAST_ER_BF15 [raw]", quantity="none")
<i>LongId</i>	DM_SEQ_LOOP_ID0 (description="DM_SEQ_LOOP_ID0 [raw]", quantity="none")
<i>LongId</i>	DM_SEQ_LOOP_ID1 (description="DM_SEQ_LOOP_ID1 [raw]", quantity="none")
<i>LongId</i>	SPL_SAMP_CORR (description="SPL_SAMP_CORR [raw]", quantity="none")
<i>LongId</i>	DM_SEQ_LOOP_ID2 (description="DM_SEQ_LOOP_ID2 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF10 (description="DM_LAST_ER_BF10 [raw]", quantity="none")
<i>StringId</i>	DM_CR4_ST_HE (description="DM_CR4_ST_HE", quantity="none")
<i>LongId</i>	DM_SEQ_LOOP_ID3 (description="DM_SEQ_LOOP_ID3 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF11 (description="DM_LAST_ER_BF11 [raw]", quantity="none")
<i>StringId</i>	DM_TS_2_ST_3 (description="DM_TS_2_ST_3", quantity="none")
<i>LongId</i>	DM_GRAT_PID_ACC (description="DM_GRAT_PID_ACC [raw]", quantity="none")
<i>StringId</i>	DM_TS_2_ST_4 (description="DM_TS_2_ST_4", quantity="none")

<i>StringId</i>	DM_CC_TASK_WR (description="DM_CC_TASK_WR", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF16 (description="DM_LAST_ER_BF16 [raw]", quantity="none")
<i>StringId</i>	DM_TS_2_ST_1 (description="DM_TS_2_ST_1", quantity="none")
<i>StringId</i>	DM_TS_2_ST_2 (description="DM_TS_2_ST_2", quantity="none")
<i>StringId</i>	DM_GC_PID (description="DM_GC_PID", quantity="none")
<i>StringId</i>	DM_CR1_ST_HE (description="DM_CR1_ST_HE", quantity="none")
<i>DoubleId</i>	DM_SPU_PS_TEMP (description="DM_SPU_PS_TEMP [eng, K]", quantity="none")
<i>LongId</i>	DP_COM_DMC (description="DP_COM_DMC [raw]", quantity="none")
<i>StringId</i>	DP_OBCP_RUN (description="DP_OBCP_RUN", quantity="none")
<i>StringId</i>	DP_IRQ3_TASK (description="DP_IRQ3_TASK", quantity="none")
<i>DoubleId</i>	DM_FPU_T2_TEMP (description="DM_FPU_T2_TEMP [eng, K]", quantity="none")
<i>DoubleId</i>	DM_DECB_VWELL_4 (description="DM_DECB_VWELL_4 [eng, V]", quantity="none")
<i>LongId</i>	SID (description="SID [raw]", quantity="none")
<i>LongId</i>	SPS_PIX (description="SPS_PIX [raw]", quantity="none")
<i>LongId</i>	DM_FWSC_SPARE4 (description="DM_FWSC_SPARE4 [raw]", quantity="none")
<i>StringId</i>	DM_TS_1_ST_4 (description="DM_TS_1_ST_4", quantity="none")
<i>StringId</i>	DM_BPE_TASK_AL (description="DM_BPE_TASK_AL", quantity="none")
<i>StringId</i>	DM_TS_1_ST_3 (description="DM_TS_1_ST_3", quantity="none")
<i>StringId</i>	DM_CR3_ST_SIM (description="DM_CR3_ST_SIM", quantity="none")
<i>StringId</i>	DM_TS_1_ST_2 (description="DM_TS_1_ST_2", quantity="none")
<i>StringId</i>	DM_FPU_CH_TS_ST (description="DM_FPU_CH_TS_ST", quantity="none")
<i>DoubleId</i>	DM_DECB_VWELL_3 (description="DM_DECB_VWELL_3 [eng, V]", quantity="none")
<i>StringId</i>	DM_TS_1_ST_1 (description="DM_TS_1_ST_1", quantity="none")
<i>StringId</i>	DM_DSIM_TIME (description="DM_DSIM_TIME", quantity="none")
<i>StringId</i>	DM_DBR_ERR_NS (description="DM_DBR_ERR_NS", quantity="none")
<i>StringId</i>	SPS_DMC_LINK (description="SPS_DMC_LINK", quantity="none")
<i>LongId</i>	DM_DET_SIM_STAT (description="DM_DET_SIM_STAT [raw]", quantity="none")
<i>LongId</i>	DP_COM_DMC_PACK (description="DP_COM_DMC_PACK [raw]", quantity="none")
<i>LongId</i>	DM_DECR_CTRL_PA (description="DM_DECR_CTRL_PA [raw]", quantity="none")

<i>StringId</i>	DM_CR4_ST_FL (description="DM_CR4_ST_FL", quantity="none")
<i>StringId</i>	DM_CR2_NDS (description="DM_CR2_NDS", quantity="none")
<i>DoubleId</i>	DM_DECR_TS_1_2 (description="DM_DECR_TS_1_2 [eng, K]", quantity="none")
<i>DoubleId</i>	DM_DECR_TS_1_1 (description="DM_DECR_TS_1_1 [eng, K]", quantity="none")
<i>LongId</i>	HD_APIID (description="HD_APIID [raw]", quantity="none")
<i>LongId</i>	DM_DSIM_SPARE7 (description="DM_DSIM_SPARE7 [raw]", quantity="none")
<i>StringId</i>	DP_STABLE_DEC (description="DP_STABLE_DEC", quantity="none")
<i>DoubleId</i>	DM_DECB_VSS_3 (description="DM_DECB_VSS_3 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECB_VSS_4 (description="DM_DECB_VSS_4 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_VWELL_2 (description="DM_DECR_VWELL_2 [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ERR_ID (description="DM_LAST_ERR_ID [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_VWELL_1 (description="DM_DECR_VWELL_1 [eng, V]", quantity="none")
<i>StringId</i>	DM_CR3_ST_CRPOW (description="DM_CR3_ST_CRPOW", quantity="none")
<i>LongId</i>	SPS_LLC_ERROR (description="SPS_LLC_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_RED_ENC_PAC (description="DM_RED_ENC_PAC [raw]", quantity="none")
<i>StringId</i>	DM_CS2C_DOWN (description="DM_CS2C_DOWN", quantity="none")
<i>StringId</i>	DP_SPL_LINK (description="DP_SPL_LINK", quantity="none")
<i>LongId</i>	DM_IRS_CNT (description="DM_IRS_CNT [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_TS_1_4 (description="DM_DECB_TS_1_4 [eng, K]", quantity="none")
<i>LongId</i>	DM_SW_SPARE5 (description="DM_SW_SPARE5 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_TS_1_3 (description="DM_DECB_TS_1_3 [eng, K]", quantity="none")
<i>LongId</i>	DP_COM_SPS_NACK (description="DP_COM_SPS_NACK [raw]", quantity="none")
<i>StringId</i>	DM_BR_TASK_WR (description="DM_BR_TASK_WR", quantity="none")
<i>StringId</i>	DM_DBR_SENDING (description="DM_DBR_SENDING", quantity="none")
<i>LongId</i>	DP_COM_SPUS (description="DP_COM_SPUS [raw]", quantity="none")

<i>StringId</i>	DM_CS1C_POWER (description="DM_CS1C_POWER", quantity="none")
<i>StringId</i>	DM_DPUR_TASK_WR (description="DM_DPUR_TASK_WR", quantity="none")
<i>LongId</i>	DP_COM_SPUL (description="DP_COM_SPUL [raw]", quantity="none")
<i>StringId</i>	DM_GC_SYNCHRO (description="DM_GC_SYNCHRO", quantity="none")
<i>StringId</i>	DM_SEQ_TASK_AL (description="DM_SEQ_TASK_AL", quantity="none")
<i>DoubleId</i>	BOL_TEMP_SP_SWT (description="BOL_TEMP_SP_SWT [eng, K]", quantity="none")
<i>LongId</i>	DM_SEQ_STATUS (description="DM_SEQ_STATUS [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_ISS_1 (description="DM_DECR_ISS_1 [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECR_ISS_2 (description="DM_DECR_ISS_2 [eng, mA]", quantity="none")
<i>LongId</i>	DM_FW_PHOT_CTRL (description="DM_FW_PHOT_CTRL [raw]", quantity="none")
<i>StringId</i>	DM_CC_PID (description="DM_CC_PID", quantity="none")
<i>StringId</i>	DM_GC_DEGRADE (description="DM_GC_DEGRADE", quantity="none")
<i>StringId</i>	DM_CS1C_DOWN (description="DM_CS1C_DOWN", quantity="none")
<i>StringId</i>	DP_COUNTER_SPS (description="DP_COUNTER_SPS", quantity="none")
<i>StringId</i>	DM_BR_TASK_AL (description="DM_BR_TASK_AL", quantity="none")
<i>LongId</i>	DM_GC_LL_SC (description="DM_GC_LL_SC [raw]", quantity="none")
<i>LongId</i>	DM_DPUR_SPARE4 (description="DM_DPUR_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DP_COM_REC_DPU (description="DP_COM_REC_DPU [raw]", quantity="none")
<i>StringId</i>	DM_DPUS_TASK_WR (description="DM_DPUS_TASK_WR", quantity="none")
<i>StringId</i>	DM_SEQ_IDLE (description="DM_SEQ_IDLE", quantity="none")
<i>LongId</i>	DM_FPU_T_SEN_ST (description="DM_FPU_T_SEN_ST [raw]", quantity="none")
<i>StringId</i>	DM_HKD_TASK_AL (description="DM_HKD_TASK_AL", quantity="none")
<i>LongId</i>	DM_BOL_CTRL_STA (description="DM_BOL_CTRL_STA [raw]", quantity="none")
<i>LongId</i>	DM_CR2_ST_SP1 (description="DM_CR2_ST_SP1 [raw]", quantity="none")
<i>LongId</i>	DM_CR2_ST_SP2 (description="DM_CR2_ST_SP2 [raw]", quantity="none")

<i>StringId</i>	DM_CR3_ST_POW (description="DM_CR3_ST_POW", quantity="none")
<i>StringId</i>	DM_CS2C_POWER (description="DM_CS2C_POWER", quantity="none")
<i>LongId</i>	DM_SEQ_POINTER (description="DM_SEQ_POINTER [raw]", quantity="none")
<i>LongId</i>	DM_DPU_SEN_STAT (description="DM_DPU_SEN_STAT [raw]", quantity="none")
<i>StringId</i>	DM_CR1_ST_POW (description="DM_CR1_ST_POW", quantity="none")
<i>LongId</i>	DM_CR4_ST_SP1 (description="DM_CR4_ST_SP1 [raw]", quantity="none")
<i>LongId</i>	DM_CR4_ST_SP2 (description="DM_CR4_ST_SP2 [raw]", quantity="none")
<i>LongId</i>	DM_SW_GLOBAL_ST (description="DM_SW_GLOBAL_ST [raw]", quantity="none")
<i>DoubleId</i>	DP_T (description="DP_T [eng, degC]", quantity="none")
<i>LongId</i>	DM_DECB_REC_PAC (description="DM_DECB_REC_PAC [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_6 (description="BOL_PWR_ANA_P_6 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_7 (description="BOL_PWR_ANA_P_7 [eng, V]", quantity="none")
<i>StringId</i>	DP_BURST_MODE (description="DP_BURST_MODE", quantity="none")
<i>StringId</i>	DM_FPU_S2_TS_ST (description="DM_FPU_S2_TS_ST", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_2 (description="BOL_PWR_ANA_P_2 [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF5 (description="DM_LAST_ER_BF5 [raw]", quantity="none")
<i>LongId</i>	SPS_SUBVERSION (description="SPS_SUBVERSION [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF6 (description="DM_LAST_ER_BF6 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_3 (description="BOL_PWR_ANA_P_3 [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF3 (description="DM_LAST_ER_BF3 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_4 (description="BOL_PWR_ANA_P_4 [eng, V]", quantity="none")
<i>StringId</i>	DM_CR3_ST_CUR (description="DM_CR3_ST_CUR", quantity="none")
<i>LongId</i>	SPL_PIX (description="SPL_PIX [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF4 (description="DM_LAST_ER_BF4 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_5 (description="BOL_PWR_ANA_P_5 [eng, V]", quantity="none")

<i>LongId</i>	DM_LAST_ER_BF9 (description="DM_LAST_ER_BF9 [raw]", quantity="none")
<i>LongId</i>	DM_BOL_REC_STAT (description="DM_BOL_REC_STAT [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF7 (description="DM_LAST_ER_BF7 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_1 (description="BOL_PWR_ANA_P_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF8 (description="DM_LAST_ER_BF8 [raw]", quantity="none")
<i>StringId</i>	DM_DSIM_BOL_SIM (description="DM_DSIM_BOL_SIM", quantity="none")
<i>LongId</i>	SPL_MAINT_RAMPS (description="SPL_MAINT_RAMPS [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_ISS_3 (description="DM_DECB_ISS_3 [eng, mA]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF1 (description="DM_LAST_ER_BF1 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_ISS_4 (description="DM_DECB_ISS_4 [eng, mA]", quantity="none")
<i>StringId</i>	DP_EV_BOL_BIAS (description="DP_EV_BOL_BIAS", quantity="none")
<i>LongId</i>	DM_HK_DIAG_STAT (description="DM_HK_DIAG_STAT [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF2 (description="DM_LAST_ER_BF2 [raw]", quantity="none")
<i>StringId</i>	DM_CC_UP (description="DM_CC_UP", quantity="none")
<i>StringId</i>	DP_EVENT_DEC (description="DP_EVENT_DEC", quantity="none")
<i>LongId</i>	DM_DPUR_ERROR (description="DM_DPUR_ERROR [raw]", quantity="none")
<i>StringId</i>	DP_SPS_LINK (description="DP_SPS_LINK", quantity="none")
<i>LongId</i>	DM_FWPC_SPARE1A (description="DM_FWPC_SPARE1A [raw]", quantity="none")
<i>LongId</i>	DM_FWPC_SPARE1B (description="DM_FWPC_SPARE1B [raw]", quantity="none")
<i>StringId</i>	DM_CR3_NDS (description="DM_CR3_NDS", quantity="none")
<i>StringId</i>	DM_GC_COMMUT (description="DM_GC_COMMUT", quantity="none")
<i>LongId</i>	DM_GRAT_CUR_POS (description="DM_GRAT_CUR_POS [raw]", quantity="none")
<i>StringId</i>	DM_RPE_ERR_NS (description="DM_RPE_ERR_NS", quantity="none")
<i>LongId</i>	DM_OBSID (description="DM_OBSID [raw]", quantity="none")
<i>StringId</i>	DM_CR4_ST_TE (description="DM_CR4_ST_TE", quantity="none")
<i>DoubleId</i>	DM_DECR_HEAT_C (description="DM_DECR_HEAT_C [eng, mA]", quantity="none")

<i>LongId</i>	DM_ISR_SPARE1 (description="DM_ISR_SPARE1 [raw]", quantity="none")
<i>StringId</i>	DM_FWPC_POSC_A (description="DM_FWPC_POSC_A", quantity="none")
<i>StringId</i>	DM_FWPC_POSC_B (description="DM_FWPC_POSC_B", quantity="none")
<i>LongId</i>	DM_ISR_SPARE2 (description="DM_ISR_SPARE2 [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_T_WE (description="DP_EV_BOL_T_WE", quantity="none")
<i>StringId</i>	DM_DRC_TASK_WR (description="DM_DRC_TASK_WR", quantity="none")
<i>DoubleId</i>	DM_DECR_FLASH_C (description="DM_DECR_FLASH_C [eng, mA]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_5 (description="BOL_PWR_DIG_5 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_6 (description="BOL_PWR_DIG_6 [eng, V]", quantity="none")
<i>StringId</i>	DM_DPUS_LINK (description="DM_DPUS_LINK", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_7 (description="BOL_PWR_DIG_7 [eng, V]", quantity="none")
<i>LongId</i>	DM_BC_SPARE4 (description="DM_BC_SPARE4 [raw]", quantity="none")
<i>StringId</i>	DM_FWPC_ERR_NS (description="DM_FWPC_ERR_NS", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_1 (description="BOL_PWR_DIG_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_2 (description="BOL_PWR_DIG_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_3 (description="BOL_PWR_DIG_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_4 (description="BOL_PWR_DIG_4 [eng, V]", quantity="none")
<i>StringId</i>	DM_DBR_SIM_TIME (description="DM_DBR_SIM_TIME", quantity="none")
<i>StringId</i>	DM_CR3_ST_TE (description="DM_CR3_ST_TE", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_RO (description="DP_EV_BOL_I_RO", quantity="none")
<i>StringId</i>	DM_CS1C_TASK_AL (description="DM_CS1C_TASK_AL", quantity="none")
<i>DoubleId</i>	DM_DECR_HEAT_V (description="DM_DECR_HEAT_V [eng, V]", quantity="none")
<i>StringId</i>	DM_SW_COPY_OBS (description="DM_SW_COPY_OBS", quantity="none")
<i>LongId</i>	SPS_SAMP_CORR (description="SPS_SAMP_CORR [raw]", quantity="none")

<i>StringId</i>	DM_SW_ERR (description="DM_SW_ERR", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU_ST (description="BOL_TEMP_FPU_ST [eng, K]", quantity="none")
<i>StringId</i>	DM_CR1_ST_RA (description="DM_CR1_ST_RA", quantity="none")
<i>StringId</i>	DM_BR_SENDING (description="DM_BR_SENDING", quantity="none")
<i>StringId</i>	DM_DSIM_R_SIMUL (description="DM_DSIM_R_SIMUL", quantity="none")
<i>DoubleId</i>	DP_VOL_15P (description="DP_VOL_15P [eng, V]", quantity="none")
<i>StringId</i>	DM_FPU_CS_TS_ST (description="DM_FPU_CS_TS_ST", quantity="none")
<i>DoubleId</i>	DM_FW_SPEC_TEMP (description="DM_FW_SPEC_TEMP [eng, K]", quantity="none")
<i>DoubleId</i>	DP_VOL_15N (description="DP_VOL_15N [eng, V]", quantity="none")
<i>StringId</i>	DM_BR_LINK (description="DM_BR_LINK", quantity="none")
<i>StringId</i>	DM_HKCO_TASK_WR (description="DM_HKCO_TASK_WR", quantity="none")
<i>LongId</i>	SPS_CI (description="SPS_CI [raw]", quantity="none")
<i>StringId</i>	DM_CR4_ST_RA (description="DM_CR4_ST_RA", quantity="none")
<i>DoubleId</i>	DM_DECR_DCDCP15 (description="DM_DECR_DCDCP15 [eng, mA]", quantity="none")
<i>LongId</i>	DM_ISR_STAT (description="DM_ISR_STAT [raw]", quantity="none")
<i>LongId</i>	HD_LENGTH (description="HD_LENGTH [raw]", quantity="none")
<i>LongId</i>	DP_COM_SPS_PACK (description="DP_COM_SPS_PACK [raw]", quantity="none")
<i>LongId</i>	DP_1_8_REJECTED (description="DP_1_8_REJECTED [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_ZB_CM_1 (description="DM_DECR_ZB_CM_1 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_ZB_CM_2 (description="DM_DECR_ZB_CM_2 [eng, V]", quantity="none")
<i>LongId</i>	DM_FWSC_SPARE1A (description="DM_FWSC_SPARE1A [raw]", quantity="none")
<i>LongId</i>	DM_CS2C_ERROR (description="DM_CS2C_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_CR1_ST_CRPOW (description="DM_CR1_ST_CRPOW", quantity="none")
<i>LongId</i>	DM_SEQ_ERROR (description="DM_SEQ_ERROR [raw]", quantity="none")
<i>StringId</i>	DP_1355_LINK (description="DP_1355_LINK", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU1 (description="BOL_TEMP_FPU1 [eng, K]", quantity="none")

<i>DoubleId</i>	BOL_TEMP_FPU2 (description="BOL_TEMP_FPU2 [eng, K]", quantity="none")
<i>LongId</i>	DM_DECR_RA_CO_1 (description="DM_DECR_RA_CO_1 [raw]", quantity="none")
<i>LongId</i>	SPS_PAR_MONITOR (description="SPS_PAR_MONITOR [raw]", quantity="none")
<i>LongId</i>	DM_GRAT_PID_ERR (description="DM_GRAT_PID_ERR [raw]", quantity="none")
<i>LongId</i>	DP_1_2_REJECTED (description="DP_1_2_REJECTED [raw]", quantity="none")
<i>LongId</i>	DM_DECR_RA_CO_2 (description="DM_DECR_RA_CO_2 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_VGND_2 (description="DM_DECR_VGND_2 [eng, V]", quantity="none")
<i>StringId</i>	DM_BPE_TASK_WR (description="DM_BPE_TASK_WR", quantity="none")
<i>DoubleId</i>	DM_DECB_FLASH_V (description="DM_DECB_FLASH_V [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_VGND_1 (description="DM_DECR_VGND_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_FWPC_ERROR (description="DM_FWPC_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_CR2_ST_CUR (description="DM_CR2_ST_CUR", quantity="none")
<i>DoubleId</i>	DM_GRAT_OUTPUT (description="DM_GRAT_OUTPUT [eng, mA]", quantity="none")
<i>LongId</i>	DM_GRAT_CTRL_ST (description="DM_GRAT_CTRL_ST [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_4 (description="BOL_PWR_ANA_N_4 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_5 (description="BOL_PWR_ANA_N_5 [eng, V]", quantity="none")
<i>LongId</i>	DM_SW_ERROR (description="DM_SW_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_DECB_SR_RB_3 (description="DM_DECB_SR_RB_3 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_6 (description="BOL_PWR_ANA_N_6 [eng, V]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT10 (description="DM_CUSTOM_ENT10 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_7 (description="BOL_PWR_ANA_N_7 [eng, V]", quantity="none")
<i>StringId</i>	DM_CR3_ST_RA (description="DM_CR3_ST_RA", quantity="none")
<i>LongId</i>	DM_DECB_SR_RB_4 (description="DM_DECB_SR_RB_4 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_1 (description="BOL_PWR_ANA_N_1 [eng, V]", quantity="none")

<i>StringId</i>	SPL_DMC_ERROR (description="SPL_DMC_ERROR", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_2 (description="BOL_PWR_ANA_N_2 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_SPU_SWL_TEMP (description="DM_SPU_SWL_TEMP [eng, K]", quantity="none")
<i>LongId</i>	DM_HK_DIAG_PERI (description="DM_HK_DIAG_PERI [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_3 (description="BOL_PWR_ANA_N_3 [eng, V]", quantity="none")
<i>StringId</i>	DM_CR4_NDS (description="DM_CR4_NDS", quantity="none")
<i>LongId</i>	DM_FWSC_SPARE1B (description="DM_FWSC_SPARE1B [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_FLASH_C (description="DM_DECB_FLASH_C [eng, mA]", quantity="none")
<i>StringId</i>	DM_CR1_ST_TE (description="DM_CR1_ST_TE", quantity="none")
<i>DoubleId</i>	DP_VOL_25P (description="DP_VOL_25P [eng, V]", quantity="none")
<i>DoubleId</i>	SPL_CPUWORKLOAD (description="SPL_CPUWORKLOAD [eng, %]", quantity="none")
<i>StringId</i>	DP_SPUS_LINK (description="DP_SPUS_LINK", quantity="none")
<i>LongId</i>	DM_SEQ_SPARE2 (description="DM_SEQ_SPARE2 [raw]", quantity="none")
<i>DoubleId</i>	DP_VOL_5P (description="DP_VOL_5P [eng, V]", quantity="none")
<i>LongId</i>	DM_DPU_REC_PAC (description="DM_DPU_REC_PAC [raw]", quantity="none")
<i>StringId</i>	DP_COUNTER_SPL (description="DP_COUNTER_SPL", quantity="none")
<i>LongId</i>	DM_SEQ_SPARE1 (description="DM_SEQ_SPARE1 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_DCDC_P5 (description="DM_DECB_DCDC_P5 [eng, mA]", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_HEA (description="DP_EV_BOL_I_HEA", quantity="none")
<i>StringId</i>	DM_CR2_ST_RA (description="DM_CR2_ST_RA", quantity="none")
<i>DoubleId</i>	DM_DECR_IDDA_1 (description="DM_DECR_IDDA_1 [eng, mA]", quantity="none")
<i>StringId</i>	DP_COUNTER_PHOT (description="DP_COUNTER_PHOT", quantity="none")
<i>LongId</i>	DM_CR3_ST_SP2 (description="DM_CR3_ST_SP2 [raw]", quantity="none")
<i>StringId</i>	DM_DSIM_ERR_NS (description="DM_DSIM_ERR_NS", quantity="none")
<i>StringId</i>	DM_CR4_ST_SIM (description="DM_CR4_ST_SIM", quantity="none")

<i>StringId</i>	DM_CR2_ST_POW (description="DM_CR2_ST_POW", quantity="none")
<i>LongId</i>	DM_DECR_REC_PAC (description="DM_DECR_REC_PAC [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_IDDA_3 (description="DM_DECB_IDDA_3 [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECB_DCDCP15 (description="DM_DECB_DCDCP15 [eng, mA]", quantity="none")
<i>LongId</i>	DP_SPUS_LINK_DE (description="DP_SPUS_LINK_DE [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_IDDA_4 (description="DM_DECB_IDDA_4 [eng, mA]", quantity="none")
<i>StringId</i>	DM_CC_LOOP (description="DM_CC_LOOP", quantity="none")
<i>DoubleId</i>	DM_DECR_IDDA_2 (description="DM_DECR_IDDA_2 [eng, mA]", quantity="none")
<i>LongId</i>	SPS_RCX (description="SPS_RCX [raw]", quantity="none")
<i>LongId</i>	DM_BC_ERROR (description="DM_BC_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_DSIM_TASK_AL (description="DM_DSIM_TASK_AL", quantity="none")
<i>LongId</i>	DM_DECB_RO_CO_4 (description="DM_DECB_RO_CO_4 [raw]", quantity="none")
<i>LongId</i>	DM_CR3_ST_SP1 (description="DM_CR3_ST_SP1 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_RO_CO_3 (description="DM_DECB_RO_CO_3 [raw]", quantity="none")
<i>DoubleId</i>	DM_CAL_SRC_TEMP (description="DM_CAL_SRC_TEMP [eng, K]", quantity="none")
<i>DoubleId</i>	DM_CS1_OUTPUT (description="DM_CS1_OUTPUT [eng, V]", quantity="none")
<i>StringId</i>	DM_DRR_SENDING (description="DM_DRR_SENDING", quantity="none")
<i>StringId</i>	DM_DRC_LINK (description="DM_DRC_LINK", quantity="none")
<i>StringId</i>	DP_SPUL_CMD (description="DP_SPUL_CMD", quantity="none")
<i>LongId</i>	DM_BLUE_PAC_ENC (description="DM_BLUE_PAC_ENC [raw]", quantity="none")
<i>LongId</i>	SPL_RCX (description="SPL_RCX [raw]", quantity="none")
<i>LongId</i>	DM_HK_CTRL_STAT (description="DM_HK_CTRL_STAT [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_T_FPU (description="DP_EV_BOL_T_FPU", quantity="none")
<i>LongId</i>	DM_PM_DF_IND (description="DM_PM_DF_IND [raw]", quantity="none")
<i>LongId</i>	DM_HKCO_ERROR (description="DM_HKCO_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_DECR_DCDC_T2 (description="DM_DECR_DCDC_T2 [raw]", quantity="none")

<i>DoubleId</i>	DM_DECB_VGND_3 (description="DM_DECB_VGND_3 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_DCDC_T1 (description="DM_DECR_DCDC_T1 [eng, K]", quantity="none")
<i>DoubleId</i>	DM_DECB_VGND_4 (description="DM_DECB_VGND_4 [eng, V]", quantity="none")
<i>StringId</i>	DM_CS2C_PID (description="DM_CS2C_PID", quantity="none")
<i>LongId</i>	DM_DPU_REC_STAT (description="DM_DPU_REC_STAT [raw]", quantity="none")
<i>StringId</i>	DP_OBCP_MANAGER (description="DP_OBCP_MANAGER", quantity="none")
<i>LongId</i>	HD_SPARE_3 (description="HD_SPARE_3 [raw]", quantity="none")
<i>StringId</i>	DP_DEC_LINK (description="DP_DEC_LINK", quantity="none")
<i>LongId</i>	SPL_LLC_ERROR (description="SPL_LLC_ERROR [raw]", quantity="none")
<i>LongId</i>	HD_VERSION_NUMB (description="HD_VERSION_NUMB [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_DCDCN15 (description="DM_DECR_DCDCN15 [eng, mA]", quantity="none")
<i>LongId</i>	DM_DBR_SPARE2 (description="DM_DBR_SPARE2 [raw]", quantity="none")
<i>LongId</i>	DM_GRAT_TARGET (description="DM_GRAT_TARGET [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_VSS_2 (description="DM_DECR_VSS_2 [eng, V]", quantity="none")
<i>LongId</i>	DM_HKCO_SPARE5 (description="DM_HKCO_SPARE5 [raw]", quantity="none")
<i>StringId</i>	DM_CR2_ST_CS (description="DM_CR2_ST_CS", quantity="none")
<i>LongId</i>	HD_SPARE_1 (description="HD_SPARE_1 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_CL_RO_4 (description="DM_DECB_CL_RO_4 [raw]", quantity="none")
<i>LongId</i>	HD_SPARE_2 (description="HD_SPARE_2 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_CL_RO_3 (description="DM_DECB_CL_RO_3 [raw]", quantity="none")
<i>LongId</i>	SPS_VID (description="SPS_VID [raw]", quantity="none")
<i>StringId</i>	DM_FWSC_TASK_WR (description="DM_FWSC_TASK_WR", quantity="none")
<i>DoubleId</i>	DM_DECR_VSS_1 (description="DM_DECR_VSS_1 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_IDDD_2 (description="DM_DECR_IDDD_2 [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECR_IDDD_1 (description="DM_DECR_IDDD_1 [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECB_IDDD_3 (description="DM_DECB_IDDD_3 [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECB_REF_0V4 (description="DM_DECB_REF_0V4 [eng, V]", quantity="none")

<i>LongId</i>	DM_OBT_COUNT (description="DM_OBT_COUNT [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_REF_0V3 (description="DM_DECB_REF_0V3 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECB_IDDD_4 (description="DM_DECB_IDDD_4 [eng, mA]", quantity="none")
<i>StringId</i>	DM_FPU_FWP_TS_S (description="DM_FPU_FWP_TS_S", quantity="none")
<i>StringId</i>	DP_SPUS_CMD (description="DP_SPUS_CMD", quantity="none")
<i>StringId</i>	DM_GC_LL_LOCKED (description="DM_GC_LL_LOCKED", quantity="none")
<i>LongId</i>	DM_DSIM_SPARE1A (description="DM_DSIM_SPARE1A [raw]", quantity="none")
<i>LongId</i>	DM_CS2_CTRL_STA (description="DM_CS2_CTRL_STA [raw]", quantity="none")
<i>DoubleId</i>	DM_DSP_TEMP (description="DM_DSP_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_BR_SIM_TIME (description="DM_BR_SIM_TIME", quantity="none")
<i>StringId</i>	DM_GC_LL_MOVING (description="DM_GC_LL_MOVING", quantity="none")
<i>LongId</i>	DM_DSIM_SPARE1B (description="DM_DSIM_SPARE1B [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_DCDCP5 (description="DM_DECR_DCDCP5 [eng, mA]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_4 (description="BOL_TEMP_R_4 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_5 (description="BOL_TEMP_R_5 [eng, degC]", quantity="none")
<i>LongId</i>	DM_MIM_ST (description="DM_MIM_ST [raw]", quantity="none")
<i>LongId</i>	DM_DSIM_ERROR (description="DM_DSIM_ERROR [raw]", quantity="none")
<i>StringId</i>	SPS_DMC_ERROR (description="SPS_DMC_ERROR", quantity="none")
<i>LongId</i>	DM_GC_ERROR (description="DM_GC_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_CC_ERROR (description="DM_CC_ERROR [raw]", quantity="none")
<i>StringId</i>	DP_SPUL_LINK (description="DP_SPUL_LINK", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_1 (description="BOL_TEMP_R_1 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_2 (description="BOL_TEMP_R_2 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_3 (description="BOL_TEMP_R_3 [eng, degC]", quantity="none")
<i>StringId</i>	DM_CS2C_UP (description="DM_CS2C_UP", quantity="none")
<i>StringId</i>	DM_CR4_ST_CUR (description="DM_CR4_ST_CUR", quantity="none")

<i>StringId</i>	DM_DSIM_TASK_WR (description="DM_DSIM_TASK_WR", quantity="none")
<i>StringId</i>	DM_DPUR_TASK_AL (description="DM_DPUR_TASK_AL", quantity="none")
<i>LongId</i>	SPS_REAL (description="SPS_REAL [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_B_3 (description="BOL_TEMP_B_3 [eng, degC]", quantity="none")
<i>LongId</i>	DM_CHOP_SETPOIN (description="DM_CHOP_SETPOIN [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_B_2 (description="BOL_TEMP_B_2 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_B_1 (description="BOL_TEMP_B_1 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_DAQ (description="BOL_TEMP_DAQ [eng, degC]", quantity="none")
<i>StringId</i>	DP_TEST_MODE (description="DP_TEST_MODE", quantity="none")
<i>LongId</i>	DM_DECR_CL_RO_1 (description="DM_DECR_CL_RO_1 [raw]", quantity="none")
<i>LongId</i>	DM_CHOP_CUR_POS (description="DM_CHOP_CUR_POS [raw]", quantity="none")
<i>LongId</i>	DM_DECR_CL_RO_2 (description="DM_DECR_CL_RO_2 [raw]", quantity="none")
<i>LongId</i>	DM_CS2C_SPARE1B (description="DM_CS2C_SPARE1B [raw]", quantity="none")
<i>StringId</i>	DM_RPE_TASK_AL (description="DM_RPE_TASK_AL", quantity="none")
<i>DoubleId</i>	DM_FW_PHOT_TEMP (description="DM_FW_PHOT_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DP_BLUE_SCIENCE (description="DP_BLUE_SCIENCE", quantity="none")
<i>StringId</i>	DP_UNIT (description="DP_UNIT", quantity="none")
<i>StringId</i>	DP_DMC_CMD (description="DP_DMC_CMD", quantity="none")
<i>LongId</i>	DM_DECB_DCDC_T4 (description="DM_DECB_DCDC_T4 [raw]", quantity="none")
<i>StringId</i>	DM_CC_COMMUT (description="DM_CC_COMMUT", quantity="none")
<i>LongId</i>	DM_TIME_2 (description="DM_TIME_2 [raw]", quantity="none")
<i>LongId</i>	DM_TIME_1 (description="DM_TIME_1 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_ZB_CM_4 (description="DM_DECB_ZB_CM_4 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECB_ZB_CM_3 (description="DM_DECB_ZB_CM_3 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECB_HEAT_V (description="DM_DECB_HEAT_V [eng, V]", quantity="none")
<i>LongId</i>	DM_CS1C_SPARE1 (description="DM_CS1C_SPARE1 [raw]", quantity="none")

<i>LongId</i>	DP_SPUS_LINK_PE (description="DP_SPUS_LINK_PE [raw]", quantity="none")
<i>LongId</i>	DM_CS1C_ERROR (description="DM_CS1C_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_CS1C_SPARE4 (description="DM_CS1C_SPARE4 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_DCDC_T3 (description="DM_DECB_DCDC_T3 [eng, K]", quantity="none")
<i>LongId</i>	DM_PM_SF_IND (description="DM_PM_SF_IND [raw]", quantity="none")
<i>LongId</i>	DM_BPE_ERROR (description="DM_BPE_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_GC_ERR_NS (description="DM_GC_ERR_NS", quantity="none")
<i>StringId</i>	DM_CS2C_TASK_WR (description="DM_CS2C_TASK_WR", quantity="none")
<i>StringId</i>	DM_CR4_ST_POW (description="DM_CR4_ST_POW", quantity="none")
<i>DoubleId</i>	BOL_TEMP_EV (description="BOL_TEMP_EV [eng, K]", quantity="none")
<i>DoubleId</i>	DM_DECB_DCDCN15 (description="DM_DECB_DCDCN15 [eng, mA]", quantity="none")
<i>StringId</i>	DM_CR2_ST_SIM (description="DM_CR2_ST_SIM", quantity="none")
<i>DoubleId</i>	DM_DECR_VCAN2_2 (description="DM_DECR_VCAN2_2 [eng, V]", quantity="none")
<i>StringId</i>	DM_DPUS_ERR_NS (description="DM_DPUS_ERR_NS", quantity="none")
<i>DoubleId</i>	DM_DECR_VCAN2_1 (description="DM_DECR_VCAN2_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_CR1_ST_SP2 (description="DM_CR1_ST_SP2 [raw]", quantity="none")
<i>StringId</i>	DM_FWPH_CUR_POS (description="DM_FWPH_CUR_POS", quantity="none")
<i>LongId</i>	DM_CR1_ST_SP1 (description="DM_CR1_ST_SP1 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_V0V_4 (description="DM_DECB_V0V_4 [eng, V]", quantity="none")
<i>StringId</i>	DP_STABLE_SPS (description="DP_STABLE_SPS", quantity="none")
<i>StringId</i>	DM_CS2C_SYNCHRO (description="DM_CS2C_SYNCHRO", quantity="none")
<i>StringId</i>	DM_CR2_ST_FL (description="DM_CR2_ST_FL", quantity="none")
<i>StringId</i>	DM_FWSC_MOVING (description="DM_FWSC_MOVING", quantity="none")
<i>DoubleId</i>	DM_DECB_HEAT_C (description="DM_DECB_HEAT_C [eng, mA]", quantity="none")

<i>LongId</i>	DM_CHOP_MAX_DIT (description="DM_CHOP_MAX_DIT [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_V0V_3 (description="DM_DECB_V0V_3 [eng, V]", quantity="none")
<i>StringId</i>	DM_ISR_SYNC_RES (description="DM_ISR_SYNC_RES", quantity="none")
<i>LongId</i>	DM_DECB_CR_ST_3 (description="DM_DECB_CR_ST_3 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_CR_ST_4 (description="DM_DECB_CR_ST_4 [raw]", quantity="none")
<i>LongId</i>	SPL_PAR_MONITOR (description="SPL_PAR_MONITOR [raw]", quantity="none")
<i>LongId</i>	DM_RPE_ERROR (description="DM_RPE_ERROR [raw]", quantity="none")
<i>DoubleId</i>	DM_PSC_V2 (description="DM_PSC_V2 [eng, mA]", quantity="none")
<i>StringId</i>	DM_GC_UP (description="DM_GC_UP", quantity="none")
<i>DoubleId</i>	DM_PSC_V1 (description="DM_PSC_V1 [eng, A]", quantity="none")
<i>DoubleId</i>	DM_PSC_V4 (description="DM_PSC_V4 [eng, A]", quantity="none")
<i>StringId</i>	DP_EEPROM_PROT (description="DP_EEPROM_PROT", quantity="none")
<i>DoubleId</i>	DM_PSC_V3 (description="DM_PSC_V3 [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECB_VCAN2_3 (description="DM_DECB_VCAN2_3 [eng, V]", quantity="none")
<i>StringId</i>	DM_HKD_ERR_NS (description="DM_HKD_ERR_NS", quantity="none")
<i>StringId</i>	DM_FWPC_SEARCHB (description="DM_FWPC_SEARCHB", quantity="none")
<i>DoubleId</i>	DM_DECB_VCAN2_4 (description="DM_DECB_VCAN2_4 [eng, V]", quantity="none")
<i>StringId</i>	DM_FWPC_SEARCHA (description="DM_FWPC_SEARCHA", quantity="none")
<i>DoubleId</i>	DM_REF_VOLT_0V (description="DM_REF_VOLT_0V [eng, V]", quantity="none")
<i>StringId</i>	DM_FPU_S1_TS_ST (description="DM_FPU_S1_TS_ST", quantity="none")
<i>DoubleId</i>	DM_CPU_LOAD (description="DM_CPU_LOAD [eng, %]", quantity="none")
<i>LongId</i>	DM_BBID (description="DM_BBID [raw]", quantity="none")
<i>StringId</i>	DP_STABLE_SPL (description="DP_STABLE_SPL", quantity="none")
<i>StringId</i>	DM_DPUR_ERR_NS (description="DM_DPUR_ERR_NS", quantity="none")
<i>StringId</i>	DM_FPU_FWS_TS_S (description="DM_FPU_FWS_TS_S", quantity="none")

<i>StringId</i>	DM_GC_HOM_COMP (description="DM_GC_HOM_COMP", quantity="none")
<i>LongId</i>	DM_SEQ_LABEL (description="DM_SEQ_LABEL [raw]", quantity="none")
<i>DoubleId</i>	DM_FPU_T1_TEMP (description="DM_FPU_T1_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_CR1_ST_CUR (description="DM_CR1_ST_CUR", quantity="none")
<i>LongId</i>	SPL_VID (description="SPL_VID [raw]", quantity="none")
<i>LongId</i>	DM_BOL_CTRL_PAC (description="DM_BOL_CTRL_PAC [raw]", quantity="none")
<i>LongId</i>	DM_BLUE_ENC_PAC (description="DM_BLUE_ENC_PAC [raw]", quantity="none")
<i>LongId</i>	DP_SPUL_LINK_DE (description="DP_SPUL_LINK_DE [raw]", quantity="none")
<i>DoubleId</i>	DM_SPU_VP_CUR (description="DM_SPU_VP_CUR [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECR_REF_0V1 (description="DM_DECR_REF_0V1 [eng, V]", quantity="none")
<i>StringId</i>	DM_DSIM_B_SIMUL (description="DM_DSIM_B_SIMUL", quantity="none")
<i>DoubleId</i>	DM_DECR_REF_0V2 (description="DM_DECR_REF_0V2 [eng, V]", quantity="none")
<i>LongId</i>	DM_DRC_SPARE3 (description="DM_DRC_SPARE3 [raw]", quantity="none")
<i>LongId</i>	HD_SEG_FLAG (description="HD_SEG_FLAG [raw]", quantity="none")
<i>StringId</i>	DM_FWPC_MOVING (description="DM_FWPC_MOVING", quantity="none")
<i>StringId</i>	DM_CR2_ST_HE (description="DM_CR2_ST_HE", quantity="none")
<i>LongId</i>	DM_BOL_STATUS (description="DM_BOL_STATUS [raw]", quantity="none")
<i>StringId</i>	DM_CS1C_TASK_WR (description="DM_CS1C_TASK_WR", quantity="none")
<i>StringId</i>	DM_CS1C_SYNCHRO (description="DM_CS1C_SYNCHRO", quantity="none")
<i>LongId</i>	DM_B_SPEC_READ (description="DM_B_SPEC_READ [raw]", quantity="none")
<i>StringId</i>	DP_EV_DEC_SPC (description="DP_EV_DEC_SPC", quantity="none")
<i>DoubleId</i>	DM_SPU_VCC_VOL (description="DM_SPU_VCC_VOL [eng, V]", quantity="none")
<i>DoubleId</i>	DM_CHOPPER_TEMP (description="DM_CHOPPER_TEMP [eng, K]", quantity="none")
<i>StringId</i>	SPL_DMC_LINK (description="SPL_DMC_LINK", quantity="none")

<i>LongId</i>	DM_BPE_SPARE4 (description="DM_BPE_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DP_DEC_LINK_PE (description="DP_DEC_LINK_PE [raw]", quantity="none")
<i>LongId</i>	DM_DECB_RO_RA_4 (description="DM_DECB_RO_RA_4 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_RO_RA_3 (description="DM_DECB_RO_RA_3 [raw]", quantity="none")
<i>LongId</i>	DP_TC_LOST (description="DP_TC_LOST [raw]", quantity="none")
<i>StringId</i>	DP_RED_SCIENCE (description="DP_RED_SCIENCE", quantity="none")
<i>DoubleId</i>	SPS_CPUWORKLOAD (description="SPS_CPUWORKLOAD [eng, %]", quantity="none")
<i>StringId</i>	DM_DBC_TASK_WR (description="DM_DBC_TASK_WR", quantity="none")
<i>StringId</i>	DM_GC_TASK_WR (description="DM_GC_TASK_WR", quantity="none")
<i>LongId</i>	HD_SRC_SEQ_CTN (description="HD_SRC_SEQ_CTN [raw]", quantity="none")
<i>StringId</i>	DM_CS2C_LOOP (description="DM_CS2C_LOOP", quantity="none")
<i>StringId</i>	DM_CR3_ST_HE (description="DM_CR3_ST_HE", quantity="none")
<i>StringId</i>	DM_CS1C_UP (description="DM_CS1C_UP", quantity="none")
<i>StringId</i>	DM_CS1C_LOOP (description="DM_CS1C_LOOP", quantity="none")
<i>StringId</i>	DM_RPE_LINK (description="DM_RPE_LINK", quantity="none")
<i>LongId</i>	DM_DBC_SPARE3 (description="DM_DBC_SPARE3 [raw]", quantity="none")
<i>DoubleId</i>	DM_CS2_OUTPUT (description="DM_CS2_OUTPUT [eng, V]", quantity="none")
<i>LongId</i>	DM_RPE_SPARE4 (description="DM_RPE_SPARE4 [raw]", quantity="none")
<i>StringId</i>	DM_RPE_TASK_WR (description="DM_RPE_TASK_WR", quantity="none")
<i>StringId</i>	DP_WHICH_OBCP (description="DP_WHICH_OBCP", quantity="none")
<i>StringId</i>	DM_CS1C_PID (description="DM_CS1C_PID", quantity="none")
<i>StringId</i>	DP_1553CHANNEL (description="DP_1553CHANNEL", quantity="none")
<i>LongId</i>	DM_CC_SPARE1B (description="DM_CC_SPARE1B [raw]", quantity="none")
<i>LongId</i>	DM_CC_SPARE1A (description="DM_CC_SPARE1A [raw]", quantity="none")
<i>LongId</i>	DM_DECB_CTRL_ST (description="DM_DECB_CTRL_ST [raw]", quantity="none")
<i>StringId</i>	DM_DBC_POWER (description="DM_DBC_POWER", quantity="none")

<i>LongId</i>	DP_COM_DMC_NACK (description="DP_COM_DMC_NACK [raw]", quantity="none")
<i>StringId</i>	DM_DRC_POWER (description="DM_DRC_POWER", quantity="none")
<i>LongId</i>	DP_SW_SUBVERS_ID (description="DP_SW_SUBVERS_ID [raw]", quantity="none")
<i>StringId</i>	DM_BPE_LINK (description="DM_BPE_LINK", quantity="none")
<i>StringId</i>	DM_FWSC_POWER (description="DM_FWSC_POWER", quantity="none")
<i>StringId</i>	DM_DBC_TASK_AL (description="DM_DBC_TASK_AL", quantity="none")
<i>StringId</i>	DM_GC_LL_UNLOCK (description="DM_GC_LL_UNLOCK", quantity="none")
<i>StringId</i>	DM_CR3_ST_FL (description="DM_CR3_ST_FL", quantity="none")
<i>LongId</i>	DM_R_SPEC_READ (description="DM_R_SPEC_READ [raw]", quantity="none")
<i>LongId</i>	DM_DM_SF_IND (description="DM_DM_SF_IND [raw]", quantity="none")
<i>LongId</i>	DM_RED_PAC_ENC (description="DM_RED_PAC_ENC [raw]", quantity="none")
<i>LongId</i>	DM_CS2C_SPARE4 (description="DM_CS2C_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DM_CS2C_SPARE1 (description="DM_CS2C_SPARE1 [raw]", quantity="none")
<i>LongId</i>	DM_CS1C_SPARE1B (description="DM_CS1C_SPARE1B [raw]", quantity="none")
<i>LongId</i>	DM_DECB_REC_STA (description="DM_DECB_REC_STA [raw]", quantity="none")
<i>StringId</i>	DM_DRC_ERR_NS (description="DM_DRC_ERR_NS", quantity="none")
<i>DoubleId</i>	DM_REF_VOLT_5V (description="DM_REF_VOLT_5V [eng, V]", quantity="none")
<i>StringId</i>	DM_CR3_ST_SEL (description="DM_CR3_ST_SEL", quantity="none")
<i>StringId</i>	DP_CONTROLLER (description="DP_CONTROLLER", quantity="none")
<i>LongId</i>	DM_CHOP_CTRL_ST (description="DM_CHOP_CTRL_ST [raw]", quantity="none")
<i>StringId</i>	DM_CR1_ST_SEL (description="DM_CR1_ST_SEL", quantity="none")
<i>LongId</i>	DP_COM_SPL_NACK (description="DP_COM_SPL_NACK [raw]", quantity="none")
<i>LongId</i>	SPL_CI (description="SPL_CI [raw]", quantity="none")
<i>StringId</i>	DM_RSPU_TR_MODE (description="DM_RSPU_TR_MODE", quantity="none")
<i>LongId</i>	HD_SOURCE_TYPE (description="HD_SOURCE_TYPE [raw]", quantity="none")

<i>LongId</i>	DM_HKD_ERROR (description="DM_HKD_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_SEQ_WAIT_IND (description="DM_SEQ_WAIT_IND [raw]", quantity="none")
<i>StringId</i>	DM_BR_ERR_NS (description="DM_BR_ERR_NS", quantity="none")
<i>DoubleId</i>	BOL_TEMP_PSU_2 (description="BOL_TEMP_PSU_2 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_PSU_1 (description="BOL_TEMP_PSU_1 [eng, degC]", quantity="none")
<i>DoubleId</i>	DM_CS1_RES_VAL (description="DM_CS1_RES_VAL [eng, Ohm]", quantity="none")
<i>LongId</i>	DM_FWSC_ERROR (description="DM_FWSC_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_CS2C_COMMUT (description="DM_CS2C_COMMUT", quantity="none")
<i>LongId</i>	DP_SPUL_LINK_PE (description="DP_SPUL_LINK_PE [raw]", quantity="none")
<i>LongId</i>	DM_DPU_SEND_PAC (description="DM_DPU_SEND_PAC [raw]", quantity="none")
<i>StringId</i>	DP_DMC_LINK (description="DP_DMC_LINK", quantity="none")
<i>LongId</i>	DM_VID (description="DM_VID [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_V_PWR (description="DP_EV_BOL_V_PWR", quantity="none")
<i>LongId</i>	SPL_REAL (description="SPL_REAL [raw]", quantity="none")
<i>LongId</i>	DM_GRAT_SETPOIN (description="DM_GRAT_SETPOIN [raw]", quantity="none")
<i>LongId</i>	DM_DECR_TS_ST_1 (description="DM_DECR_TS_ST_1 [raw]", quantity="none")
<i>LongId</i>	DM_DECR_TS_ST_2 (description="DM_DECR_TS_ST_2 [raw]", quantity="none")
<i>StringId</i>	DM_CS1C_ERR_NS (description="DM_CS1C_ERR_NS", quantity="none")
<i>StringId</i>	DM_GC_HOM_PROG (description="DM_GC_HOM_PROG", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_SP2 (description="DP_EV_BOL_I_SP2", quantity="none")
<i>LongId</i>	DM_CHOP_PID_ERR (description="DM_CHOP_PID_ERR [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_SP1 (description="DP_EV_BOL_I_SP1", quantity="none")
<i>StringId</i>	DP_COUNTER_DEC (description="DP_COUNTER_DEC", quantity="none")
<i>LongId</i>	DP_STATUS (description="DP_STATUS [raw]", quantity="none")
<i>LongId</i>	SPL_INTEG_RAMPS (description="SPL_INTEG_RAMPS [raw]", quantity="none")
<i>DoubleId</i>	DM_CS1_TARGET (description="DM_CS1_TARGET [eng, Ohm]", quantity="none")

<i>LongId</i>	DP_COM_REJ_DPU (description="DP_COM_REJ_DPU [raw]", quantity="none")
<i>LongId</i>	DM_DECR_RO_RA_1 (description="DM_DECR_RO_RA_1 [raw]", quantity="none")
<i>LongId</i>	DM_DECR_RO_RA_2 (description="DM_DECR_RO_RA_2 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_VCAN1_4 (description="DM_DECB_VCAN1_4 [eng, V]", quantity="none")
<i>LongId</i>	DM_DM_DF_IND (description="DM_DM_DF_IND [raw]", quantity="none")
<i>StringId</i>	DP_HK_MONITOR (description="DP_HK_MONITOR", quantity="none")
<i>DoubleId</i>	DM_DECB_VCAN1_3 (description="DM_DECB_VCAN1_3 [eng, V]", quantity="none")
<i>StringId</i>	DM_CC_ERR_NS (description="DM_CC_ERR_NS", quantity="none")
<i>StringId</i>	DM_CR4_ST_CS (description="DM_CR4_ST_CS", quantity="none")
<i>LongId</i>	SPS_INTEG_RAMPS (description="SPS_INTEG_RAMPS [raw]", quantity="none")
<i>LongId</i>	SPS_MAINT_RAMPS (description="SPS_MAINT_RAMPS [raw]", quantity="none")
<i>LongId</i>	DM_DECR_REC_STA (description="DM_DECR_REC_STA [raw]", quantity="none")
<i>StringId</i>	DM_DBC_ERR_NS (description="DM_DBC_ERR_NS", quantity="none")
<i>DoubleId</i>	DM_SPU_PSU_P15V (description="DM_SPU_PSU_P15V [eng, V]", quantity="none")
<i>LongId</i>	DM_CC_SPARE1C (description="DM_CC_SPARE1C [raw]", quantity="none")
<i>DoubleId</i>	DM_SPU_LWL_TEMP (description="DM_SPU_LWL_TEMP [eng, K]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_5 (description="DM_CUSTOM_ENT_5 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_4 (description="DM_CUSTOM_ENT_4 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_7 (description="DM_CUSTOM_ENT_7 [raw]", quantity="none")
<i>LongId</i>	DP_DEC_LINK_DE (description="DP_DEC_LINK_DE [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_6 (description="DM_CUSTOM_ENT_6 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_9 (description="DM_CUSTOM_ENT_9 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_8 (description="DM_CUSTOM_ENT_8 [raw]", quantity="none")
<i>StringId</i>	DP_HK_CHK (description="DP_HK_CHK", quantity="none")

<i>LongId</i>	DM_DECR_CTRL_ST (description="DM_DECR_CTRL_ST [raw]", quantity="none")
<i>LongId</i>	HD_DATA_FLAG (description="HD_DATA_FLAG [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_1 (description="DM_CUSTOM_ENT_1 [raw]", quantity="none")
<i>StringId</i>	DM_FWSC_SEARCHB (description="DM_FWSC_SEARCHB", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_3 (description="DM_CUSTOM_ENT_3 [raw]", quantity="none")
<i>StringId</i>	DM_FWSC_SEARCHA (description="DM_FWSC_SEARCHA", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_2 (description="DM_CUSTOM_ENT_2 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_TS_ST_4 (description="DM_DECB_TS_ST_4 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_TS_ST_3 (description="DM_DECB_TS_ST_3 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_VBI_R_2 (description="DM_DECR_VBI_R_2 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_VBI_R_1 (description="DM_DECR_VBI_R_1 [eng, V]", quantity="none")
<i>StringId</i>	DM_CR2_ST_CRPOW (description="DM_CR2_ST_CRPOW", quantity="none")
<i>StringId</i>	DM_CS2C_ERR_NS (description="DM_CS2C_ERR_NS", quantity="none")
<i>StringId</i>	DM_CR3_ST_CS (description="DM_CR3_ST_CS", quantity="none")
<i>LongId</i>	DM_CHOP_TARGET (description="DM_CHOP_TARGET [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_V0BIAS1 (description="DM_DECR_V0BIAS1 [eng, V]", quantity="none")
<i>StringId</i>	DM_SEQ_TASK_WR (description="DM_SEQ_TASK_WR", quantity="none")
<i>DoubleId</i>	DM_DECR_V0BIAS2 (description="DM_DECR_V0BIAS2 [eng, V]", quantity="none")
<i>StringId</i>	SPS_SATUR_FLAG (description="SPS_SATUR_FLAG", quantity="none")
<i>StringId</i>	DM_FWSP_CUR_POS (description="DM_FWSP_CUR_POS", quantity="none")
<i>StringId</i>	DP_EVENT_SPU (description="DP_EVENT_SPU", quantity="none")
<i>StringId</i>	DM_DPUS_TASK_AL (description="DM_DPUS_TASK_AL", quantity="none")
<i>LongId</i>	DM_CS1_CTRL_STA (description="DM_CS1_CTRL_STA [raw]", quantity="none")
<i>StringId</i>	DM_DPUR_LINK (description="DM_DPUR_LINK", quantity="none")

<i>DoubleId</i>	DM_CS2_RES_VAL (description="DM_CS2_RES_VAL [eng, Ohm]", quantity="none")
<i>StringId</i>	DM_DRR_TASK_AL (description="DM_DRR_TASK_AL", quantity="none")
<i>StringId</i>	DM_GC_LS (description="DM_GC_LS", quantity="none")
<i>StringId</i>	DM_CS2C_TASK_AL (description="DM_CS2C_TASK_AL", quantity="none")
<i>DoubleId</i>	DP_WORK_LOAD (description="DP_WORK_LOAD [eng, %]", quantity="none")
<i>LongId</i>	DP_HK_LOST (description="DP_HK_LOST [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_VDDA_4 (description="DM_DECB_VDDA_4 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_GRATING_TEMP (description="DM_GRATING_TEMP [eng, K]", quantity="none")
<i>DoubleId</i>	DM_DECB_VDDA_3 (description="DM_DECB_VDDA_3 [eng, V]", quantity="none")
<i>LongId</i>	DM_DRR_SPARE2 (description="DM_DRR_SPARE2 [raw]", quantity="none")
<i>LongId</i>	DM_DRC_ERROR (description="DM_DRC_ERROR [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_VDDA_1 (description="DM_DECR_VDDA_1 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_VDDA_2 (description="DM_DECR_VDDA_2 [eng, V]", quantity="none")
<i>StringId</i>	DM_FWSC_POSC_B (description="DM_FWSC_POSC_B", quantity="none")
<i>StringId</i>	DM_FWSC_POSC_A (description="DM_FWSC_POSC_A", quantity="none")
<i>DoubleId</i>	DM_DECR_VCAN1_2 (description="DM_DECR_VCAN1_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_EV_SWT (description="BOL_TEMP_EV_SWT [eng, K]", quantity="none")
<i>DoubleId</i>	DM_DECR_VCAN1_1 (description="DM_DECR_VCAN1_1 [eng, V]", quantity="none")
<i>LongId</i>	HD_PCKT_SUBTYPE (description="HD_PCKT_SUBTYPE [raw]", quantity="none")
<i>StringId</i>	DM_CR1_ST_SIM (description="DM_CR1_ST_SIM", quantity="none")
<i>DoubleId</i>	DM_DECB_AC_CUR (description="DM_DECB_AC_CUR [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECB_VBI_R_4 (description="DM_DECB_VBI_R_4 [eng, V]", quantity="none")
<i>StringId</i>	SPL_SATUR_FLAG (description="SPL_SATUR_FLAG", quantity="none")
<i>DoubleId</i>	DM_DECB_VBI_R_3 (description="DM_DECB_VBI_R_3 [eng, V]", quantity="none")

<i>LongId</i>	DM_DECR_CR_ST_2 (description="DM_DECR_CR_ST_2 [raw]", quantity="none")
<i>LongId</i>	DM_DBC_ERROR (description="DM_DBC_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_DECR_CR_ST_1 (description="DM_DECR_CR_ST_1 [raw]", quantity="none")
<i>StringId</i>	DP_AF_24_SPARE (description="DP_AF_24_SPARE", quantity="none")
<i>DoubleId</i>	DM_DECR_VDDR_1 (description="DM_DECR_VDDR_1 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_VDDR_2 (description="DM_DECR_VDDR_2 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DCDC_TEMP (description="DM_DCDC_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DP_1355_HANDLER (description="DP_1355_HANDLER", quantity="none")
<i>StringId</i>	DM_DRR_SIM_TIME (description="DM_DRR_SIM_TIME", quantity="none")
<i>StringId</i>	DM_CR1_ST_CS (description="DM_CR1_ST_CS", quantity="none")
<i>LongId</i>	HD_PUS_VERSION (description="HD_PUS_VERSION [raw]", quantity="none")
<i>LongId</i>	DP_SPARE (description="DP_SPARE [raw]", quantity="none")
<i>StringId</i>	DM_FWSC_POS_B (description="DM_FWSC_POS_B", quantity="none")
<i>LongId</i>	DP_SW_VERS_ID (description="DP_SW_VERS_ID [raw]", quantity="none")
<i>StringId</i>	DM_FWSC_ERR_NS (description="DM_FWSC_ERR_NS", quantity="none")
<i>StringId</i>	DM_FWSC_POS_A (description="DM_FWSC_POS_A", quantity="none")
<i>StringId</i>	DP_SPUL_HK (description="DP_SPUL_HK", quantity="none")
<i>LongId</i>	DM_BOL_REC_PAC (description="DM_BOL_REC_PAC [raw]", quantity="none")
<i>StringId</i>	DP_COUNTER_SPEC (description="DP_COUNTER_SPEC", quantity="none")
<i>LongId</i>	DP_EVENT_LOST (description="DP_EVENT_LOST [raw]", quantity="none")
<i>LongId</i>	SPS_OBSID (description="SPS_OBSID [raw]", quantity="none")
<i>DoubleId</i>	DM_CS2_TARGET (description="DM_CS2_TARGET [eng, Ohm]", quantity="none")
<i>StringId</i>	DM_DRR_LINK (description="DM_DRR_LINK", quantity="none")
<i>StringId</i>	DM_DBR_TASK_WR (description="DM_DBR_TASK_WR", quantity="none")
<i>StringId</i>	DP_EVENT_DPU (description="DP_EVENT_DPU", quantity="none")
<i>StringId</i>	DM_BC_TASK_WR (description="DM_BC_TASK_WR", quantity="none")

<i>StringId</i>	DP_INIT (description="DP_INIT", quantity="none")
<i>LongId</i>	DM_PLL_RES_LO (description="DM_PLL_RES_LO [raw]", quantity="none")
<i>LongId</i>	SPL_MEM_CNTS (description="SPL_MEM_CNTS [raw]", quantity="none")
<i>LongId</i>	DP_AF_STATUS (description="DP_AF_STATUS [raw]", quantity="none")
<i>StringId</i>	DM_CC_DOWN (description="DM_CC_DOWN", quantity="none")
<i>DoubleId</i>	DM_CHOP_OUTPUT (description="DM_CHOP_OUTPUT [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECB_VDDR_4 (description="DM_DECB_VDDR_4 [eng, V]", quantity="none")
<i>StringId</i>	DP_TM_RATE (description="DP_TM_RATE", quantity="none")
<i>DoubleId</i>	DM_DECB_VDDR_3 (description="DM_DECB_VDDR_3 [eng, V]", quantity="none")
<i>StringId</i>	DM_CR2_ST_SEL (description="DM_CR2_ST_SEL", quantity="none")
<i>StringId</i>	DP_DMC_HK (description="DP_DMC_HK", quantity="none")

3.1.45. PACS Product Level 0 - Raw Data Spectrometer blue

<i>product (type="HPSRAWBS", description="Raw Data Spectrometer blue")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
StringParameter	camName (description="Name of the Camera")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
BooleanParameter	Initialized (description="null")
LongParameter	Obsid (description="null")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")

StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product Level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")

StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineId (description="HSPOT: line ID", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")

StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
<i>Columns</i>	
<i>table dataset</i>	(name="Signal", description="Table for science data.")
<i>Metadata</i>	
<i>Columns</i>	
<i>Int1d</i>	detnum (description="null", quantity="none")
<i>Int1d</i>	row (description="null", quantity="none")
<i>Int1d</i>	column (description="null", quantity="none")
<i>Int1d</i>	reset (description="null", quantity="none")
<i>Double2d</i>	readouts (description="null", quantity="none")

3.1.46. PACS Product Level 0 - Raw Data Spectrometer red

<i>product (type="HPSRAWRS", description="Raw Data Spectrometer red")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")

StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
StringParameter	camName (description="Name of the Camera")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
BooleanParameter	Initialized (description="null")
LongParameter	Obsid (description="null")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product Level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")

DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")

DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineId (description="HSPOT: line ID", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
<i>Columns</i>	
<i>table dataset</i>	(name="Signal", description="Table for science data.")
<i>Metadata</i>	
<i>Columns</i>	
<i>Int1d</i>	detnum (description="null", quantity="none")
<i>Int1d</i>	row (description="null", quantity="none")
<i>Int1d</i>	column (description="null", quantity="none")

	<i>Int1d</i>	reset (description="null", quantity="none")
	<i>Double2d</i>	readouts (description="null", quantity="none")

3.1.47. PACS Product Level 0.5 - Spectroscopy raw DecMec status blue product

<i>product (type="HPSDMCBS", description="Spectroscopy raw DecMec status blue product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")

StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")

LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")

StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	repetition (description="SLICE_INFO: repetition", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
LongParameter	sliceNumber (description="Slice number", quantity="micrometer")
<i>Columns</i>	
<i>table dataset</i>	(name="DmcHeader", description="Status")
<i>Metadata</i>	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
LongParameter	DIM2 (description="Number of measures per status parameter")
<i>Columns</i>	
<i>Int1d</i>	RESETINDEX (description="Indicates the reset index of the status parameters", quantity="none")
<i>Int1d</i>	OBSID (description="Identifier of the observation", quantity="none")
<i>Int1d</i>	BBID (description="Building block type", quantity="none")
<i>Int2d</i>	LBL (description="Label", quantity="none")
<i>Int2d</i>	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
<i>Int2d</i>	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")

<i>Long2d</i>	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
<i>Int2d</i>	VLD (description="Validity flag set by DecMec", quantity="none")
<i>Int2d</i>	CPR (description="Chopper position", quantity="none")
<i>Int2d</i>	WPR (description="Filter wheel Position", quantity="none")
<i>Int2d</i>	GPR (description="Grating Position", quantity="none")
<i>Int2d</i>	CRCRMP (description="Readout counter within an integration ramp", quantity="none")
<i>Int2d</i>	RRR (description="Readouts in Ramp", quantity="none")
<i>Int2d</i>	CRDC (description="Current Readout counter since last time reset", quantity="none")
<i>Int2d</i>	CRECR (description="CRE status word", quantity="none")

3.1.48. PACS Product Level 0.5 - Spectroscopy raw DecMec status blue product

<i>product (type="HPSDMCBS", description="Spectroscopy raw DecMec status blue product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")

StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")

BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")

StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
LongParameter	sliceNumber (description="Slice number", quantity="micrometer")
<i>Columns</i>	
<i>table dataset</i>	(name="DmcHeader", description="Status")
<i>Metadata</i>	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")

LongParameter	DIM2 (description="Number of measures per status parameter")		
Columns			
Int1d	RESETINDEX	(description="Indicates the reset index of the status parameters", quantity="none")	
Int1d	OBSID	(description="Identifier of the observation", quantity="none")	
Int1d	BBID	(description="Building block type", quantity="none")	
Int2d	LBL	(description="Label", quantity="none")	
Int2d	TMP1	(description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")	
Int2d	TMP2	(description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")	
Long2d	FINETIME	(description="Time [microsec] since epoch 1 Jan 1958", quantity="none")	
Int2d	VLD	(description="Validity flag set by DecMec", quantity="none")	
Int2d	CPR	(description="Chopper position", quantity="none")	
Int2d	WPR	(description="Filter wheel Position", quantity="none")	
Int2d	GPR	(description="Grating Position", quantity="none")	
Int2d	CRCRMP	(description="Readout counter within an integration ramp", quantity="none")	
Int2d	RRR	(description="Readouts in Ramp", quantity="none")	
Int2d	CRDC	(description="Current Readout counter since last time reset", quantity="none")	
Int2d	CRECR	(description="CRE status word", quantity="none")	

3.1.49. PACS Product Level 0.5 - Spectroscopy raw DecMec status red product

<i>product (type="HPSDMCRS", description="Spectroscopy raw DecMec status red product")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")

LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")

StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	lWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")

DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="s")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="s")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="s")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="s")
LongParameter	order (description="SLICE_INFO: filter order", quantity="s")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="s")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	repetition (description="SLICE_INFO: repetition", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
LongParameter	sliceNumber (description="Slice number", quantity="micrometer")
Columns	

<i>table dataset</i> (name="DmcHeader", description="Status")	
<i>Metadata</i>	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
LongParameter	DIM2 (description="Number of measures per status parameter")
<i>Columns</i>	
<i>Int1d</i>	RESETINDEX (description="Indicates the reset index of the status parameters", quantity="none")
<i>Int1d</i>	OBSID (description="Identifier of the observation", quantity="none")
<i>Int1d</i>	BBID (description="Building block type", quantity="none")
<i>Int2d</i>	LBL (description="Label", quantity="none")
<i>Int2d</i>	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
<i>Int2d</i>	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
<i>Long2d</i>	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
<i>Int2d</i>	VLD (description="Validity flag set by DecMec", quantity="none")
<i>Int2d</i>	CPR (description="Chopper position", quantity="none")
<i>Int2d</i>	WPR (description="Filter wheel Position", quantity="none")
<i>Int2d</i>	GPR (description="Grating Position", quantity="none")
<i>Int2d</i>	CRCRMP (description="Readout counter within an integration ramp", quantity="none")
<i>Int2d</i>	RRR (description="Readouts in Ramp", quantity="none")
<i>Int2d</i>	CRDC (description="Current Readout counter since last time reset", quantity="none")
<i>Int2d</i>	CRECR (description="CRE status word", quantity="none")

3.1.50. PACS Product Level 0.5 - Spectroscopy raw DecMec status red product

<i>product</i> (type="HPSDMCRS", description="Spectroscopy raw DecMec status red product")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")

LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")

LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")

StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="s")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="s")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="s")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="s")
LongParameter	order (description="SLICE_INFO: filter order", quantity="s")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="s")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")

LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
LongParameter	sliceNumber (description="Slice number", quantity="micrometer")
Columns	
table dataset	(name="DmcHeader", description="Status")
Metadata	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
LongParameter	DIM2 (description="Number of measures per status parameter")
Columns	
Int1d	RESETINDEX (description="Indicates the reset index of the status parameters", quantity="none")
Int1d	OBSID (description="Identifier of the observation", quantity="none")
Int1d	BBID (description="Building block type", quantity="none")
Int2d	LBL (description="Label", quantity="none")
Int2d	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
Int2d	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
Long2d	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
Int2d	VLD (description="Validity flag set by DecMec", quantity="none")
Int2d	CPR (description="Chopper position", quantity="none")
Int2d	WPR (description="Filter wheel Position", quantity="none")
Int2d	GPR (description="Grating Position", quantity="none")
Int2d	CRCRMP (description="Readout counter within an integration ramp", quantity="none")
Int2d	RRR (description="Readouts in Ramp", quantity="none")
Int2d	CRDC (description="Current Readout counter since last time reset", quantity="none")
Int2d	CRECR (description="CRE status word", quantity="none")

3.1.51. PACS Product Level 0.5 - Spectroscopy slope fitted blue product

<i>product (type="HPSFITBS", description="Spectroscopy slope fitted blue product")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")

StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")

StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")

StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	lWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")

StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")

DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	repetition (description="SLICE_INFO: repetition", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double3d</i>	(description="null", quantity="V s-1")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Ra", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Dec", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Wave", description="null")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

3.1.52. PACS Product Level 0.5 - Spectroscopy slope fitted blue product

<i>product (type="HPSFITBS", description="Spectroscopy slope fitted blue product")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")

LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")

DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")

LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")

StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double3d</i>	(description="null", quantity="V s-1")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Ra", description="null")
	()

<i>array dataset</i>	Dataset similar to the one above with (name="Dec", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Wave", description="null")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

3.1.53. PACS Product Level 0.5 - Spectroscopy slope fitted red product

<i>product (type="HPSFITRS", description="Spectroscopy slope fitted red product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")

StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")

DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")

DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")

StringParameter	Line2 (description="null", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacsSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")

LongParameter	repetition (description="SLICE_INFO: repetition", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
Columns	
array dataset	(description="null")
Metadata	
Columns	
Double3d	(description="null", quantity="V s-1")
	()
array dataset	Dataset similar to the one above with (name="Ra", description="null")
	()
array dataset	Dataset similar to the one above with (name="Dec", description="null")
	()
array dataset	Dataset similar to the one above with (name="Wave", description="null")
	()
composite dataset	Dataset similar to the one above with (name="History", description="History of product")

3.1.54. PACS Product Level 0.5 - Spectroscopy slope fitted red product

<i>product (type="HPSFITRS", description="Spectroscopy slope fitted red product")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")

LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")

StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")

BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")

StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacsSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")

BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
Columns	
array dataset	(description="null")
Metadata	
Columns	
Double3d	(description="null", quantity="V s-1")
	()
array dataset	Dataset similar to the one above with (name="Ra", description="null")
	()
array dataset	Dataset similar to the one above with (name="Dec", description="null")
	()
array dataset	Dataset similar to the one above with (name="Wave", description="null")
	()
composite dataset	Dataset similar to the one above with (name="History", description="History of product")

3.2. PACS Photometry Level-1 products

3.2.1. PACS Product Level 1 - Spectroscopy blue 3d cube product

<i>product (type="HPS3DBS", description="Spectroscopy blue 3d cube product")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")

DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")

StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")

StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	mapRasterRefOffset (description="???", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	mapRasterRefDec (description="???", quantity="arcsec")
DoubleParameter	mapRasterRefRa (description="???", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")

StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")

LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="micrometer")
DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="Flux")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double3d</i>	(description="Flux", quantity="Jy/pixel")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="wave", description="Wavelength in micron")
	()

<i>array dataset</i>	Dataset similar to the one above with (name="ra", description="Ra in degrees")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="dec", description="Dec in degrees")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

3.2.2. PACS Product Level 1 - Spectroscopy red 3d cube product

<i>product (type="HPS3DRS", description="Spectroscopy red 3d cube product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")

DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")

DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	mapRasterRefOffset (description="???", quantity="km s-1")

BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	mapRasterRefDec (description="???", quantity="arcsec")
DoubleParameter	mapRasterRefRa (description="???", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	lWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")

DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacsSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")

BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="micrometer")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="Flux")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double3d</i>	(description="Flux", quantity="Jy/pixel")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="wave", description="Wavelength in micron")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="ra", description="Ra in degrees")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="dec", description="Dec in degrees")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

3.2.3. PACS Product Level 1 - Spectroscopy blue calibration product

<i>product (type="HPSCALB", description="Spectroscopy blue calibration product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")

DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1:BoIRed 2:BoIBlue 3:SpecRed 4:SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")

LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")

DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	mapRasterRefOffset (description="???", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	mapRasterRefDec (description="???", quantity="arcsec")
DoubleParameter	mapRasterRefRa (description="???", quantity="arcsec")

DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")

LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacsSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")

LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="micrometer")
LongParameter	repetition (description="SLICE_INFO: repetition", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="micrometer")
DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="micrometer")
Columns	
compose	(description="Absolute pixel response and dark current for CalBlock0")
Metadata	
StringParameter	Band (description="Band of the calibration block")
DateParameter	Start Time (description="Start time of the calibration block")
DateParameter	End Time (description="End time of the calibration block")
Columns	
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="V s-1")
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="none")

3.2.4. PACS Product Level 1 - Spectroscopy red calibration product

product (type="HPSCALR", description="Spectroscopy red calibration product")

<i>Metada- ta</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")

StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")

DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	mapRasterRefOffset (description="???", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")

DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	mapRasterRefDec (description="???", quantity="arcsec")
DoubleParameter	mapRasterRefRa (description="???", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")

LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacsSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")

DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="micrometer")
LongParameter	repetition (description="SLICE_INFO: repetition", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="micrometer")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="micrometer")
Columns	
composite	(description="Absolute pixel response and dark current for CalBlock0")
Metadata	
StringParameter	Band (description="Band of the calibration block")
DateParameter	Start Time (description="Start time of the calibration block")
DateParameter	End Time (description="End time of the calibration block")
Columns	
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="V s-1")
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="none")

3.2.5. PACS Product Level 1 - Spectroscopy slope fitted blue product

<i>product (type="HPSFITBS", description="Spectroscopy slope fitted blue product")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")

LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")

DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	mapRasterRefOffset (description="???", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	mapRasterRefDec (description="???", quantity="arcsec")
DoubleParameter	mapRasterRefRa (description="???", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")

DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")

DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="micrometer")

DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
Columns	
array dataset	(description="null")
Metadata	
Columns	
Double3d	(description="null", quantity="Jy/pixel")
	()
array dataset	Dataset similar to the one above with (name="Ra", description="null")
	()
array dataset	Dataset similar to the one above with (name="Dec", description="null")
	()
array dataset	Dataset similar to the one above with (name="Wave", description="null")
	()
composite dataset	Dataset similar to the one above with (name="History", description="History of product")

3.2.6. PACS Product Level 1 - Spectroscopy slope fitted red product

<i>product (type="HPSFITRS", description="Spectroscopy slope fitted red product")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")

StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")

StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")

LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	mapRasterRefOffset (description="???", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	mapRasterRefDec (description="???", quantity="arcsec")
DoubleParameter	mapRasterRefRa (description="???", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")

StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacsSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")

StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="micrometer")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double3d</i>	(description="null", quantity="Jy/pixel")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Ra", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Dec", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Wave", description="null")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

3.2.7. PACS Product Level 1 - Spectroscopy blue 3d cube product

<i>product (type="HPS3DBS", description="Spectroscopy blue 3d cube product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")

StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")

DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")

StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")

BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="micrometer")
DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")

<i>Columns</i>	
<i>array dataset</i>	(description="Flux")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double3d</i>	(description="Flux", quantity="Jy/pixel")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="wave", description="Wavelength in micron")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="ra", description="Ra in degrees")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="dec", description="Dec in degrees")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

3.2.8. PACS Product Level 1 - Spectroscopy red 3d cube product

<i>product (type="HPS3DRS", description="Spectroscopy red 3d cube product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")

LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1:BoIRed 2:BoIBlue 3:SpecRed 4:SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")

StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")

LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")

StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacsSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")

LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="micrometer")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
Columns	
array dataset	(description="Flux")
Metadata	
Columns	
Double3d	(description="Flux", quantity="Jy/pixel")
	()
array dataset	Dataset similar to the one above with (name="wave", description="Wavelength in micron")
	()
array dataset	Dataset similar to the one above with (name="ra", description="Ra in degrees")
	()
array dataset	Dataset similar to the one above with (name="dec", description="Dec in degrees")
	()
composite dataset	Dataset similar to the one above with (name="History", description="History of product")

3.2.9. PACS Product Level 1 - Spectroscopy blue calibration product

<i>product (type="HPSCALB", description="Spectroscopy blue calibration product")</i>	
Metadata	

StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")

LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")

DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")

DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")

DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacsSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")

StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	repetition (description="SLICE_INFO: repetition", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="micrometer")
DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="micrometer")
Columns	
compos- ite	(description="Absolute pixel response and dark current for CalBlock0")
Metadata	
StringParameter	Band (description="Band of the calibration block")
DateParameter	Start Time (description="Start time of the calibration block")
DateParameter	End Time (description="End time of the calibration block")
Columns	
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="V s-1")

<i>array</i>	<i>(description="null")</i>
<i>dataset</i>	
<i>Metadata</i>	
<i>Columns</i>	
<i>Double2d</i>	<i>(description="null", quantity="none")</i>

3.2.10. PACS Product Level 1 - Spectroscopy red calibration product

<i>product (type="HPSCALR", description="Spectroscopy red calibration product")</i>	
<i>Meta-</i>	
<i>data</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")

StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")

DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")

BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")

StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")

StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	repetition (description="SLICE_INFO: repetition", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="micrometer")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="micrometer")
Columns	
composite	(description="Absolute pixel response and dark current for CalBlock0")
Metadata	
StringParameter	Band (description="Band of the calibration block")
DateParameter	Start Time (description="Start time of the calibration block")
DateParameter	End Time (description="End time of the calibration block")
Columns	
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="V s-1")

<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double2d</i>	(description="null", quantity="none")

3.2.11. PACS Product Level 1 - Spectroscopy slope fitted blue product

<i>product</i> (type="HPSFITBS", description="Spectroscopy slope fitted blue product")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1:BoIRed 2:BoIBlue 3:SpecRed 4:SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")

DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")

DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")

DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")

DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")

DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="micrometer")
DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
Columns	
array dataset	(description="null")
Metadata	
Columns	
Double3d	(description="null", quantity="Jy/pixel")
	()
array dataset	Dataset similar to the one above with (name="Ra", description="null")
	()
array dataset	Dataset similar to the one above with (name="Dec", description="null")
	()
array dataset	Dataset similar to the one above with (name="Wave", description="null")
	()
composite dataset	Dataset similar to the one above with (name="History", description="History of product")

3.2.12. PACS Product Level 1 - Spectroscopy slope fitted red product

<i>product (type="HPSFITRS", description="Spectroscopy slope fitted red product")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")

LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")

DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")

StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")

StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")

StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="micrometer")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
Columns	
array dataset	(description="null")
Metadata	
Columns	
Double3d	(description="null", quantity="Jy/pixel")
	()
array dataset	Dataset similar to the one above with (name="Ra", description="null")
	()
array dataset	Dataset similar to the one above with (name="Dec", description="null")
	()
array dataset	Dataset similar to the one above with (name="Wave", description="null")
	()
composite dataset	Dataset similar to the one above with (name="History", description="History of product")

3.2.13. PACS Product Level 1 - Spectroscopy blue 3d cube product

<i>product</i> (type="HPS3DBS", description="Spectroscopy blue 3d cube product")	
Metadata	
StringParameter	type (description="Product Type Identification")

StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")

LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")

StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")

StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herchelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")

StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="micrometer")
DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="Flux")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double3d</i>	(description="Flux", quantity="Jy/pixel")
	()

<i>array dataset</i>	Dataset similar to the one above with (name="wave", description="Wavelength in micron")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="ra", description="Ra in degrees")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="dec", description="Dec in degrees")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

3.2.14. PACS Product Level 1 - Spectroscopy red 3d cube product

<i>product (type="HPS3DRS", description="Spectroscopy red 3d cube product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")

DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")

StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")

BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	lWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")

DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")

StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="micrometer")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
Columns	
array dataset	(description="Flux")
Metadata	
Columns	
Double3d	(description="Flux", quantity="Jy/pixel")
	()
array dataset	Dataset similar to the one above with (name="wave", description="Wavelength in micron")
	()
array dataset	Dataset similar to the one above with (name="ra", description="Ra in degrees")
	()
array dataset	Dataset similar to the one above with (name="dec", description="Dec in degrees")
	()
composite dataset	Dataset similar to the one above with (name="History", description="History of product")

3.2.15. PACS Product Level 1 - Spectroscopy blue calibration product

<i>product (type="HPSCALB", description="Spectroscopy blue calibration product")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")

StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")

StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")

DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")

LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	lWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")

BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	repetition (description="SLICE_INFO: repetition", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")

DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="micrometer")
DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="micrometer")
Columns	
composite	(description="Absolute pixel response and dark current for CalBlock0")
Metadata	
StringParameter	Band (description="Band of the calibration block")
DateParameter	Start Time (description="Start time of the calibration block")
DateParameter	End Time (description="End time of the calibration block")
Columns	
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="V s-1")
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="none")

3.2.16. PACS Product Level 1 - Spectroscopy red calibration product

<i>product (type="HPSCALR", description="Spectroscopy red calibration product")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")

StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")

StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")

DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")

LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	lWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")

DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	repetition (description="SLICE_INFO: repetition", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")

DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="micrometer")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="micrometer")
Columns	
composite	(description="Absolute pixel response and dark current for CalBlock0")
Metadata	
StringParameter	Band (description="Band of the calibration block")
DateParameter	Start Time (description="Start time of the calibration block")
DateParameter	End Time (description="End time of the calibration block")
Columns	
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="V s-1")
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="none")

3.2.17. PACS Product Level 1 - Spectroscopy slope fitted blue product

<i>product (type="HPSFITBS", description="Spectroscopy slope fitted blue product")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")

StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")

StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")

LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")

StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")

DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="micrometer")
DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double3d</i>	(description="null", quantity="Jy/pixel")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Ra", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Dec", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Wave", description="null")

	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

3.2.18. PACS Product Level 1 - Spectroscopy slope fitted red product

<i>product (type="HPSFITRS", description="Spectroscopy slope fitted red product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")

LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")

DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")

DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")

DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="micrometer")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")

DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
Columns	
array dataset	(description="null")
Metadata	
Columns	
Double3d	(description="null", quantity="Jy/pixel")
	()
array dataset	Dataset similar to the one above with (name="Ra", description="null")
	()
array dataset	Dataset similar to the one above with (name="Dec", description="null")
	()
array dataset	Dataset similar to the one above with (name="Wave", description="null")
	()
composite dataset	Dataset similar to the one above with (name="History", description="History of product")

3.3. PACS Photometry Level-2 products

3.3.1. PACS Product Level 2 - Spectroscopy red drizzled 3d cube product

<i>product (type="HPS3DDRS", description="Spectroscopy red drizzled 3d cube product")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")

DoubleParameter	subType (description="HSPOT: Product subtype: 1:BolRed 2:BolBlue 3:SpecRed 4:SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")

StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	mapRasterRefOffset (description="???", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	mapRasterRefDec (description="???", quantity="arcsec")
DoubleParameter	mapRasterRefRa (description="???", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	lWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")

StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
BooleanParameter	pacsSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")

LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="micrometer")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
LongParameter	sliceNumber (description="Slice number", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="Flux")
<i>Metadata</i>	
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represents")
StringParameter	cunit3 (description="WCS: Unit axis 3, default="")
<i>Columns</i>	
<i>Double3d</i>	(description="Flux", quantity="Jy/pixel")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="error", description="Statistical error on the pixel values")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="coverage", description="Coverage")

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3.3.2. PACS Product Level 2 - Spectroscopy red equidistant drizzled 3d cube product

<i>product (type="HPS3DEQDRS", description="Spectroscopy red equidistant drizzled 3d cube product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")

StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")

BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	mapRasterRefOffset (description="???", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	mapRasterRefDec (description="???", quantity="arcsec")
DoubleParameter	mapRasterRefRa (description="???", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	lWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")

LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="micrometer")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")

LongParameter	sliceNumber (description="Slice number", quantity="micrometer")
BooleanParameter	wavelengthGridEquidistant (description="equidistant wavelength grid?", quantity="micrometer")
DoubleParameter	fracMinBinSize (description="fractional size of equidistant wavelength bins compared to min bin size of input cube", quantity="micrometer")
Columns	
array dataset	(description="Flux")
Metadata	
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represents")
StringParameter	cunit3 (description="WCS: Unit axis 3, default="")
DoubleParameter	crpix3 (description="WCS: Reference layer index, unit=Scalar")
DoubleParameter	crval3 (description="WCS: Wavelength, time, ... of reference layer; unit=length,time,...")
DoubleParameter	cdelt3 (description="WCS: Scale in 3rd dimension, unit=Length, Duration, ...")
Columns	
Double3d	(description="Flux", quantity="Jy/pixel")
	()
array dataset	Dataset similar to the one above with (name="error", description="Statistical error on the pixel values")
	()
array dataset	Dataset similar to the one above with (name="coverage", description="Coverage")

3.3.3. PACS Product Level 2 - Spectroscopy blue equidistant interpolated 3d cube product

<i>product (type="HPS3DEQIBS", description="Spectroscopy blue equidistant interpolated 3d cube product")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")

StringParameter	description (description="null")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")

StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{\text{rest}} - \lambda) / \lambda_{\text{rest}}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	mapRasterRefOffset (description="???", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	mapRasterRefDec (description="???", quantity="arcsec")

DoubleParameter	mapRasterRefRa (description="???", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")

StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="micrometer")
DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")

DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
BooleanParameter	wavelengthGridEquidistant (description="equidistant wavelength grid?", quantity="micrometer")
DoubleParameter	fracMinBinSize (description="fractional size of equidistant wavelength bins compared to min bin size of input cube", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="Flux")
<i>Metadata</i>	
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represents")
StringParameter	cunit3 (description="WCS: Unit axis 3, default="")
DoubleParameter	crpix3 (description="WCS: Reference layer index, unit=Scalar")
DoubleParameter	crval3 (description="WCS: Wavelength, time, ... of reference layer; unit=length,time,...")
DoubleParameter	cdelt3 (description="WCS: Scale in 3rd dimension, unit=Length, Duration, ...")
<i>Columns</i>	
<i>Double3d</i>	(description="Flux", quantity="Jy/pixel")

3.3.4. PACS Product Level 2 - Spectroscopy blue interpolated 3d cube product

<i>product (type="HPS3DIBS", description="Spectroscopy blue interpolated 3d cube product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")

DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")

DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	mapRasterRefOffset (description="???", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	mapRasterRefDec (description="???", quantity="arcsec")
DoubleParameter	mapRasterRefRa (description="???", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")

DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")

StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="micrometer")
DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less than 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")

DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="Flux")
<i>Metadata</i>	
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represents")
StringParameter	cunit3 (description="WCS: Unit axis 3, default="")
<i>Columns</i>	
<i>Double3d</i>	(description="Flux", quantity="Jy/pixel")

3.3.5. PACS Product Level 2 - Spectroscopy blue projected 3d cube product

<i>product (type="HPS3DPBS", description="Spectroscopy blue projected 3d cube product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")

DoubleParameter	subType (description="HSPOT: Product subtype: 1:BolRed 2:BolBlue 3:SpecRed 4:SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")

StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	mapRasterRefOffset (description="???", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	mapRasterRefDec (description="???", quantity="arcsec")
DoubleParameter	mapRasterRefRa (description="???", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")

StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")

BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="micrometer")
DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="Flux")
<i>Metadata</i>	
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")

DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represents")
StringParameter	cunit3 (description="WCS: Unit axis 3, default="")
<i>Columns</i>	
<i>Double3d</i>	(description="Flux", quantity="Jy/pixel")

3.3.6. PACS Product Level 2 - Spectroscopy red projected 3d cube product

<i>product (type="HPS3DPRS", description="Spectroscopy red projected 3d cube product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")

LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")

StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	mapRasterRefOffset (description="???", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	mapRasterRefDec (description="???", quantity="arcsec")
DoubleParameter	mapRasterRefRa (description="???", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	lWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")

StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herchelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacsSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")

DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="micrometer")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="Flux")
<i>Metadata</i>	
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represents")
StringParameter	cunit3 (description="WCS: Unit axis 3, default="")
<i>Columns</i>	
<i>Double3d</i>	(description="Flux", quantity="Jy/pixel")

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3.3.7. PACS Product Level 2 - Spectroscopy blue rebinned 3d cube product

<i>product (type="HPS3DRBS", description="Spectroscopy blue rebinned 3d cube product")</i>	
Meta- data	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")

StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")

StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")

BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	mapRasterRefOffset (description="???", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	mapRasterRefDec (description="???", quantity="arcsec")
DoubleParameter	mapRasterRefRa (description="???", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")

StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")

StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="micrometer")
DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="Flux")
<i>Metadata</i>	
BooleanParameter	flipyx (description="Flip YX in Display")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")

DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represents")
DoubleParameter	crota2 (description="The Rotation angle")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	cunit3 (description="WCS: Unit axis 3, default="")
<i>Columns</i>	
<i>Double3d</i>	(description="Flux", quantity="Jy/pixel")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="ra", description="Right ascension in degrees")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="dec", description="Declination in degrees")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="qualityControl", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="stddev", description="flux contributors stddev")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="exposure", description="Exposure")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="waveGrid", description="wavelength grid")

3.3.8. PACS Product Level 2 - Spectroscopy red rebinned 3d cube product

<i>product (type="HPS3DRRS", description="Spectroscopy red rebinned 3d cube product")</i>	
Meta- data	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")

DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")

DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")

BooleanParameter	mapRasterRefOffset (description="???", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	mapRasterRefDec (description="???", quantity="arcsec")
DoubleParameter	mapRasterRefRa (description="???", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")

StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacsSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")

LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="micrometer")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="Flux")
<i>Metadata</i>	
BooleanParameter	flipyx (description="Flip YX in Display")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")

DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represents")
DoubleParameter	crota2 (description="The Rotation angle")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	cunit3 (description="WCS: Unit axis 3, default="")
Columns	
Double3d	(description="Flux", quantity="Jy/pixel")
	()
array dataset	Dataset similar to the one above with (name="ra", description="Right ascension in degrees")
	()
array dataset	Dataset similar to the one above with (name="dec", description="Declination in degrees")
	()
array dataset	Dataset similar to the one above with (name="qualityControl", description="null")
	()
array dataset	Dataset similar to the one above with (name="stddev", description="flux contributors stddev")
	()
array dataset	Dataset similar to the one above with (name="exposure", description="Exposure")
	()
array dataset	Dataset similar to the one above with (name="waveGrid", description="wavelength grid")

3.3.9. PACS Product Level 2 - Spectroscopy blue rebinned cube as table

<i>product (type="HPSTBRBS", description="Spectroscopy blue rebinned cube as table")</i>	
Metadata	

StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1:BolRed 2:BolBlue 3:SpecRed 4:SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")

StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	mapRasterRefOffset (description="???", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")

DoubleParameter	mapRasterRefDec (description="???", quantity="arcsec")
DoubleParameter	mapRasterRefRa (description="???", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	lWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")

StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="micrometer")
DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")

LongParameter	sliceNumber (description="Slice number", quantity="micrometer")
Columns	
table dataset	(name="Spectra", description="Table of PACS rebinned spectra")
Metadata	
Columns	
Int1d	RasterLine (description="Raster Line", quantity="none")
Int1d	RasterColumn (description="Raster Column", quantity="none")
String1d	Band (description="Spectral Band", quantity="none")
Int1d	SpaxelNumber (description="Spaxel number", quantity="none")
Int1d	SpaxelRow (description="Spaxel row in PACS cube", quantity="none")
Int1d	SpaxelColumn (description="Spaxel column in PACS cube", quantity="none")
Double1d	RightAscension (description="Right Ascension", quantity="deg")
Double1d	Declination (description="Declination", quantity="deg")
Double1d	Wavelength (description="Wavelength", quantity="micrometer")
Double1d	Flux (description="Flux", quantity="Jy/pixel")
Double1d	FluxErr (description="Error on Flux", quantity="Jy/pixel")
	()
composite dataset	Dataset similar to the one above with (name="History", description="History of product")

3.3.10. PACS Product Level 2 - Spectroscopy red rebinned cube as table

<i>product (type="HPSTBRRS", description="Spectroscopy red rebinned cube as table")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")

LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1:BoIRed 2:BoIBlue 3:SpecRed 4:SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")

DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	mapRasterRefOffset (description="???", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	mapRasterRefDec (description="???", quantity="arcsec")
DoubleParameter	mapRasterRefRa (description="???", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	lWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")

StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
BooleanParameter	pacsSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")

LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="micrometer")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
LongParameter	sliceNumber (description="Slice number", quantity="micrometer")
<i>Columns</i>	
<i>table dataset</i>	(name="Spectra", description="Table of PACS rebinned spectra")
<i>Metadata</i>	
<i>Columns</i>	
<i>Int1d</i>	RasterLine (description="Raster Line", quantity="none")
<i>Int1d</i>	RasterColumn (description="Raster Column", quantity="none")
<i>String1d</i>	Band (description="Spectral Band", quantity="none")
<i>Int1d</i>	SpaxelNumber (description="Spaxel number", quantity="none")
<i>Int1d</i>	SpaxelRow (description="Spaxel row in PACS cube", quantity="none")
<i>Int1d</i>	SpaxelColumn (description="Spaxel column in PACS cube", quantity="none")
<i>Double1d</i>	RightAscension (description="Right Ascension", quantity="deg")

<i>Double1d</i>	Declination (description="Declination", quantity="deg")
<i>Double1d</i>	Wavelength (description="Wavelength", quantity="micrometer")
<i>Double1d</i>	Flux (description="Flux", quantity="Jy/pixel")
<i>Double1d</i>	FluxErr (description="Error on Flux", quantity="Jy/pixel")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

3.3.11. PACS Product Level 2 - Spectroscopy blue equidistant projected 3d cube product

<i>product (type="HPS3DEQPBS", description="Spectroscopy blue equidistant projected 3d cube product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")

LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")

StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")

LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacsSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")

DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="micrometer")
DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
BooleanParameter	wavelengthGridEquidistant (description="equidistant wavelength grid?", quantity="micrometer")
DoubleParameter	fracMinBinSize (description="fractional size of equidistant wavelength bins compared to min bin size of input cube", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="Flux")
<i>Metadata</i>	
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represents")
StringParameter	cunit3 (description="WCS: Unit axis 3, default="")
DoubleParameter	crpix3 (description="WCS: Reference layer index, unit=Scalar")
DoubleParameter	crval3 (description="WCS: Wavelength, time, ... of reference layer; unit=length,time,...")
DoubleParameter	cdelt3 (description="WCS: Scale in 3rd dimension, unit=Length, Duration, ...")
<i>Columns</i>	
<i>Double3d</i>	(description="Flux", quantity="Jy/pixel")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="error", description="Statistical error on the pixel values")

	()
<i>array dataset</i>	Dataset similar to the one above with (name="coverage", description="Coverage")

3.3.12. PACS Product Level 2 - Spectroscopy red equidistant projected 3d cube product

<i>product (type="HPS3DEQPRS", description="Spectroscopy red equidistant projected 3d cube product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")

LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")

BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")

BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacsSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="micrometer")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")

DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
BooleanParameter	wavelengthGridEquidistant (description="equidistant wavelength grid?", quantity="micrometer")
DoubleParameter	fracMinBinSize (description="fractional size of equidistant wavelength bins compared to min bin size of input cube", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="Flux")
<i>Metadata</i>	
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	cctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	cctype2 (description="WCS: Projection type axis 2, default="LINEAR")
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
StringParameter	cctype3 (description="WCS: Description of what the 3rd axis represents")
StringParameter	cunit3 (description="WCS: Unit axis 3, default="")
DoubleParameter	crpix3 (description="WCS: Reference layer index, unit=Scalar")
DoubleParameter	crval3 (description="WCS: Wavelength, time, ... of reference layer; unit=length,time,...")
DoubleParameter	cdelt3 (description="WCS: Scale in 3rd dimension, unit=Length, Duration, ...")
<i>Columns</i>	
<i>Double3d</i>	(description="Flux", quantity="Jy/pixel")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="error", description="Statistical error on the pixel values")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="coverage", description="Coverage")

3.3.13. PACS Product Level 2 - Spectroscopy blue projected 3d cube product

<i>product (type="HPS3DPBS", description="Spectroscopy blue projected 3d cube product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")

StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")

BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")

BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="micrometer")
DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")

BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="Flux")
<i>Metadata</i>	
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represents")
StringParameter	cunit3 (description="WCS: Unit axis 3, default="")
<i>Columns</i>	
<i>Double3d</i>	(description="Flux", quantity="Jy/pixel")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="coverage", description="Coverage")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="error", description="Statistical error on the pixel values")

3.3.14. PACS Product Level 2 - Spectroscopy red projected 3d cube product

<i>product (type="HPS3DPRS", description="Spectroscopy red projected 3d cube product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")

DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1:BolRed 2:BolBlue 3:SpecRed 4:SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")

DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")

StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="deg")

BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="micrometer")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="Flux")
<i>Metadata</i>	

DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represents")
StringParameter	cunit3 (description="WCS: Unit axis 3, default="")
<i>Columns</i>	
<i>Double3d</i>	(description="Flux", quantity="Jy/pixel")

3.3.15. PACS Product Level 2 - Spectroscopy blue rebinned 3d cube product

<i>product (type="HPS3DRBS", description="Spectroscopy blue rebinned 3d cube product")</i>	
<i>Meta-</i>	<i>data</i>
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")

StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")

StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")

StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")

StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")

LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="micrometer")
DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")

<i>Columns</i>	
<i>array dataset</i>	(description="Flux")
<i>Metadata</i>	
BooleanParameter	flipyx (description="Flip YX in Display")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represents")
DoubleParameter	crota2 (description="The Rotation angle")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	cunit3 (description="WCS: Unit axis 3, default="")
<i>Columns</i>	
<i>Double3d</i>	(description="Flux", quantity="Jy/pixel")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="ra", description="Right ascension in degrees")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="dec", description="Declination in degrees")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="qualityControl", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="stddev", description="flux contributors stddev")
	()

<i>array dataset</i>	Dataset similar to the one above with (name="exposure", description="Exposure")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="waveGrid", description="wavelength grid")

3.3.16. PACS Product Level 2 - Spectroscopy red rebinned 3d cube product

<i>product (type="HPS3DRRS", description="Spectroscopy red rebinned 3d cube product")</i>	
<i>Meta-data</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")

DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")

StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")

LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")

StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacsSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")

BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="micrometer")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="Flux")
<i>Metadata</i>	
BooleanParameter	flipyx (description="Flip YX in Display")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")

DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represents")
DoubleParameter	crota2 (description="The Rotation angle")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	cunit3 (description="WCS: Unit axis 3, default="")
<i>Columns</i>	
<i>Double3d</i>	(description="Flux", quantity="Jy/pixel")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="ra", description="Right ascension in degrees")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="dec", description="Declination in degrees")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="qualityControl", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="stddev", description="flux contributors stddev")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="exposure", description="Exposure")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="waveGrid", description="wavelength grid")

3.3.17. PACS Product Level 2 - Spectroscopy blue rebinned cube as table

<i>product (type="HPSTBRBS", description="Spectroscopy blue rebinned cube as table")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")

StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")

BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")

BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="pF")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="pF")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="pF")
DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="pF")
DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="pF")
DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="pF")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="pF")
StringParameter	onSource (description="SLICE_INFO:", quantity="pF")
StringParameter	offSource (description="SLICE_INFO:", quantity="pF")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="pF")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="pF")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="pF")
LongParameter	sliceNumber (description="Slice number", quantity="pF")
Columns	

<i>table</i>	<i>(name="Spectra", description="Table of PACS rebinned spectra")</i>			
<i>dataset</i>				
<i>Metadata</i>				
<i>Columns</i>				
<i>Int1d</i>	<i>RasterLine</i>	(description="Raster Line", quantity="none")		
<i>Int1d</i>	<i>RasterColumn</i>	(description="Raster Column", quantity="none")		
<i>String1d</i>	<i>Band</i>	(description="Spectral Band", quantity="none")		
<i>Int1d</i>	<i>SpaxelNumber</i>	(description="Spaxel number", quantity="none")		
<i>Int1d</i>	<i>SpaxelRow</i>	(description="Spaxel row in PACS cube", quantity="none")		
<i>Int1d</i>	<i>SpaxelColumn</i>	(description="Spaxel column in PACS cube", quantity="none")		
<i>Double1d</i>	<i>RightAscension</i>	(description="Right Ascension", quantity="deg")		
<i>Double1d</i>	<i>Declination</i>	(description="Declination", quantity="deg")		
<i>Double1d</i>	<i>Wavelength</i>	(description="Wavelength", quantity="micrometer")		
<i>Double1d</i>	<i>Flux</i>	(description="Flux", quantity="Jy/pixel")		
<i>Double1d</i>	<i>FluxErr</i>	(description="Error on Flux", quantity="Jy/pixel")		
	<i>()</i>			
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")			

3.3.18. PACS Product Level 2 - Spectroscopy red rebinned cube as table

<i>product</i>	<i>(type="HPSTBRRS", description="Spectroscopy red rebinned cube as table")</i>			
<i>Metadata</i>				
<i>StringParameter</i>	<i>type</i>	(description="Product Type Identification")		
<i>StringParameter</i>	<i>creator</i>	(description="Generator of this product")		
<i>DateParameter</i>	<i>creationDate</i>	(description="Creation date of this product")		
<i>StringParameter</i>	<i>description</i>	(description="Name of this product")		
<i>StringParameter</i>	<i>instrument</i>	(description="Instrument attached to this product")		
<i>StringParameter</i>	<i>modelName</i>	(description="Model name attached to this product")		
<i>DateParameter</i>	<i>startDate</i>	(description="Start date of this product")		
<i>DateParameter</i>	<i>endDate</i>	(description="End date of this product")		
<i>StringParameter</i>	<i>formatVersion</i>	(description="Version of product format")		
<i>StringParameter</i>	<i>productNotes</i>	(description="null")		
<i>LongParameter</i>	<i>detRow</i>	(description="Number of detector rows")		
<i>LongParameter</i>	<i>detCol</i>	(description="Number of detector columns")		
<i>StringParameter</i>	<i>camName</i>	(description="Name of the Camera")		
<i>LongParameter</i>	<i>relTimeOffset</i>	(description="Offset btwn PACS internal CRDC counter and on-board time")		
<i>LongParameter</i>	<i>apid</i>	(description="Application Programme Identifier")		
<i>DoubleParameter</i>	<i>subType</i>	(description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")		

DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")

StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")

StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
BooleanParameter	pacsSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")

DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="pF")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="pF")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="pF")
DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="pF")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="pF")
DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="pF")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="pF")
StringParameter	onSource (description="SLICE_INFO:", quantity="pF")
StringParameter	offSource (description="SLICE_INFO:", quantity="pF")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="pF")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="pF")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="pF")
LongParameter	sliceNumber (description="Slice number", quantity="pF")
<i>Columns</i>	
<i>table dataset</i>	(name="Spectra", description="Table of PACS rebinned spectra")
<i>Metadata</i>	
<i>Columns</i>	
<i>IntId</i>	RasterLine (description="Raster Line", quantity="none")
<i>IntId</i>	RasterColumn (description="Raster Column", quantity="none")
<i>StringId</i>	Band (description="Spectral Band", quantity="none")
<i>IntId</i>	SpaxelNumber (description="Spaxel number", quantity="none")
<i>IntId</i>	SpaxelRow (description="Spaxel row in PACS cube", quantity="none")
<i>IntId</i>	SpaxelColumn (description="Spaxel column in PACS cube", quantity="none")
<i>DoubleId</i>	RightAscension (description="Right Ascension", quantity="deg")
<i>DoubleId</i>	Declination (description="Declination", quantity="deg")
<i>DoubleId</i>	Wavelength (description="Wavelength", quantity="micrometer")
<i>DoubleId</i>	Flux (description="Flux", quantity="Jy/pixel")
<i>DoubleId</i>	FluxErr (description="Error on Flux", quantity="Jy/pixel")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

3.3.19. PACS Product Level 2 - Spectroscopy blue equidistant interpolated 3d cube product

<i>product (type="HPS3DEQIBS", description="Spectroscopy blue equidistant interpolated 3d cube product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")

StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")

BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	lWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")

DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="micrometer")
DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="micrometer")

BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
BooleanParameter	wavelengthGridEquidistant (description="equidistant wavelength grid?", quantity="micrometer")
DoubleParameter	fracMinBinSize (description="fractional size of equidistant wavelength bins compared to min bin size of input cube", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="Flux")
<i>Metadata</i>	
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represents")
StringParameter	cunit3 (description="WCS: Unit axis 3, default="")
DoubleParameter	crpix3 (description="WCS: Reference layer index, unit=Scalar")
DoubleParameter	crval3 (description="WCS: Wavelength, time, ... of reference layer; unit=length,time,...")
DoubleParameter	cdelt3 (description="WCS: Scale in 3rd dimension, unit=Length, Duration, ...")
<i>Columns</i>	
<i>Double3d</i>	(description="Flux", quantity="Jy/pixel")

3.3.20. PACS Product Level 2 - Spectroscopy red equidistant interpolated 3d cube product

<i>product (type="HPS3DEQIRS", description="Spectroscopy red equidistant interpolated 3d cube product")</i>
<i>Metadata</i>

StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")

DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")

BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")

StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="micrometer")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")

DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
BooleanParameter	wavelengthGridEquidistant (description="equidistant wavelength grid?", quantity="micrometer")
DoubleParameter	fracMinBinSize (description="fractional size of equidistant wavelength bins compared to min bin size of input cube", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="Flux")
<i>Metadata</i>	
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represents")
StringParameter	cunit3 (description="WCS: Unit axis 3, default="")
DoubleParameter	crpix3 (description="WCS: Reference layer index, unit=Scalar")
DoubleParameter	crval3 (description="WCS: Wavelength, time, ... of reference layer; unit=length,time,...")
DoubleParameter	cdelt3 (description="WCS: Scale in 3rd dimension, unit=Length, Duration, ...")
<i>Columns</i>	
<i>Double3d</i>	(description="Flux", quantity="Jy/pixel")

3.3.21. PACS Product Level 2 - Spectroscopy blue interpolated 3d cube product

<i>product (type="HPS3DIBS", description="Spectroscopy blue interpolated 3d cube product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")

DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")

StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")

LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")

DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="micrometer")
DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="Flux")
<i>Metadata</i>	

DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represents")
StringParameter	cunit3 (description="WCS: Unit axis 3, default="")
<i>Columns</i>	
<i>Double3d</i>	(description="Flux", quantity="Jy/pixel")

3.3.22. PACS Product Level 2 - Spectroscopy red interpolated 3d cube product

<i>product (type="HPS3DIRS", description="Spectroscopy red interpolated 3d cube product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")

StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")

DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	lWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")

StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herchelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")

BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="micrometer")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="Flux")
<i>Metadata</i>	
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represents")
StringParameter	cunit3 (description="WCS: Unit axis 3, default="")
<i>Columns</i>	
<i>Double3d</i>	(description="Flux", quantity="Jy/pixel")

3.3.23. PACS Product Level 2 - Spectroscopy blue projected 3d cube product

<i>product (type="HPS3DPBS", description="Spectroscopy blue projected 3d cube product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")

StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")

BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")

DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="micrometer")
DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")

DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="Flux")
<i>Metadata</i>	
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represents")
StringParameter	cunit3 (description="WCS: Unit axis 3, default="")
<i>Columns</i>	
<i>Double3d</i>	(description="Flux", quantity="Jy/pixel")

3.3.24. PACS Product Level 2 - Spectroscopy red projected 3d cube product

<i>product (type="HPS3DPRS", description="Spectroscopy red projected 3d cube product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")

DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")

StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")

LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")

DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="micrometer")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="Flux")
<i>Metadata</i>	

DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represents")
StringParameter	cunit3 (description="WCS: Unit axis 3, default="")
<i>Columns</i>	
<i>Double3d</i>	(description="Flux", quantity="Jy/pixel")

3.3.25. PACS Product Level 2 - Spectroscopy blue rebinned 3d cube product

<i>product (type="HPS3DRBS", description="Spectroscopy blue rebinned 3d cube product")</i>	
<i>Meta-</i>	<i>data</i>
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")

StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")

StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")

StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")

StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")

DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="micrometer")
DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")

<i>Columns</i>	
<i>array dataset</i>	(description="Flux")
<i>Metadata</i>	
BooleanParameter	flipyx (description="Flip YX in Display")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represents")
DoubleParameter	crota2 (description="The Rotation angle")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	cunit3 (description="WCS: Unit axis 3, default="")
<i>Columns</i>	
<i>Double3d</i>	(description="Flux", quantity="Jy/pixel")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="ra", description="Right ascension in degrees")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="dec", description="Declination in degrees")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="qualityControl", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="stddev", description="flux contributors stddev")
	()

<i>array dataset</i>	Dataset similar to the one above with (name="exposure", description="Exposure")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="waveGrid", description="wavelength grid")

3.3.26. PACS Product Level 2 - Spectroscopy red rebinned 3d cube product

<i>product (type="HPS3DRRS", description="Spectroscopy red rebinned 3d cube product")</i>	
<i>Meta-data</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")

DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")

StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")

LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	lWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")

DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacsSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")

LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="micrometer")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="Flux")
<i>Metadata</i>	
BooleanParameter	flipyx (description="Flip YX in Display")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")

DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represents")
DoubleParameter	crota2 (description="The Rotation angle")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	cunit3 (description="WCS: Unit axis 3, default="")
<i>Columns</i>	
<i>Double3d</i>	(description="Flux", quantity="Jy/pixel")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="ra", description="Right ascension in degrees")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="dec", description="Declination in degrees")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="qualityControl", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="stddev", description="flux contributors stddev")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="exposure", description="Exposure")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="waveGrid", description="wavelength grid")

3.3.27. PACS Product Level 2 - Spectroscopy blue 1D spectrum product

<i>product (type="HPSSPECBS", description="Spectroscopy blue 1D spectrum product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")

StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")

BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	lWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")

DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="micrometer")
DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")

DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
LongParameter	spaxelColumn (description="PACS Spaxel column", quantity="micrometer")
LongParameter	spaxelRow (description="PACS Spaxel row", quantity="micrometer")
DoubleParameter	spaxelRa (description="Right Ascension of the central spaxel", quantity="micrometer")
DoubleParameter	spaxelDec (description="Declination of the central spaxel", quantity="micrometer")
StringParameter	weights (description="null", quantity="micrometer")
StringParameter	flag (description="null", quantity="micrometer")
BooleanParameter	pointSourceCorrected (description="Point Source Correction Applied (central -> total)", quantity="micrometer")
LongParameter	obsidSeg000 (description="SEGMENT 0: Observation Identifier", quantity="micrometer")
StringParameter	proposalSeg000 (description="SEGMENT 0: Proposal name", quantity="micrometer")
StringParameter	lineDescriptionSeg000 (description="SEGMENT 0: SLICE_INFO: spectral line: name, wavelength, line id", quantity="micrometer")
DateParameter	startDateSeg000 (description="SEGMENT 0: Start date of the observation", quantity="micrometer")
DateParameter	endDateSeg000 (description="SEGMENT 0: End date of the observation", quantity="micrometer")
DoubleParameter	spaxelRaSeg000 (description="SEGMENT 0: Right Ascension of the central spaxel", quantity="micrometer")
DoubleParameter	spaxelDecSeg000 (description="SEGMENT 0: Declination of the central spaxel", quantity="micrometer")
DoubleParameter	radialVelocitySeg000 (description="SEGMENT 0: Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
BooleanParameter	pointSourceCorrectedSeg000 (description="SEGMENT 0: Point Source Correction Applied (central -> total)", quantity="km s-1")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="km s-1")
<i>Columns</i>	
<i>table dataset</i>	(name="spectra", description="Table with point-source spectra")
<i>Metadata</i>	
LongParameter	obsidSeg000 (description="SEGMENT 0: Observation Identifier")
StringParameter	proposalSeg000 (description="SEGMENT 0: Proposal name")

StringParameter	lineDescriptionSeg000 (description="SEGMENT 0: SLICE_INFO: spectral line: name, wavelength, line id")
DateParameter	startDateSeg000 (description="SEGMENT 0: Start date of the observation")
DateParameter	endDateSeg000 (description="SEGMENT 0: End date of the observation")
DoubleParameter	spaxelRaSeg000 (description="SEGMENT 0: Right Ascension of the central spaxel")
DoubleParameter	spaxelDecSeg000 (description="SEGMENT 0: Declination of the central spaxel")
DoubleParameter	radialVelocitySeg000 (description="SEGMENT 0: Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
BooleanParameter	pointSourceCorrectedSeg000 (description="SEGMENT 0: Point Source Correction Applied (central -> total)", quantity="km s-1")
<i>Columns</i>	
<i>IntId</i>	segment (description="Segment in concatenated spectra", quantity="none")
<i>DoubleId</i>	wave (description="Wavelength", quantity="micrometer")
<i>StringId</i>	band (description="Spectral band", quantity="none")
<i>DoubleId</i>	centralFlux (description="Flux from the central spaxel", quantity="Jy/pixel")
<i>DoubleId</i>	centralError (description="Error in flux from the central spaxel", quantity="Jy/pixel")
<i>DoubleId</i>	pointSourceFlux (description="Flux from the central spaxel, point source calibrated", quantity="Jy")
<i>DoubleId</i>	pointSourceError (description="Error in flux from the central spaxel, point source calibrated", quantity="Jy")
<i>DoubleId</i>	pointSourceScaledFlux (description="Flux from the central spaxel, scaled to the point source calibrated spectrum taken from the central 3x3 spaxels", quantity="Jy")
<i>DoubleId</i>	pointSourceScaledError (description="Error in flux from the central spaxel, scaled to the point source calibrated spectrum taken from the central 3x3 spaxels", quantity="Jy")

3.3.28. PACS Product Level 2 - Spectroscopy blue 1D spectrum product

<i>product (type="HPSSPECBS", description="Spectroscopy blue 1D spectrum product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")

DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")

StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")

LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")

LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="micrometer")
DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
LongParameter	spaxelColumn (description="PACS Spaxel column", quantity="micrometer")
LongParameter	spaxelRow (description="PACS Spaxel row", quantity="micrometer")
DoubleParameter	spaxelRa (description="Right Ascension of the central spaxel", quantity="micrometer")

DoubleParameter	spaxelDec (description="Declination of the central spaxel", quantity="micrometer")
StringParameter	weights (description="null", quantity="micrometer")
StringParameter	flag (description="null", quantity="micrometer")
BooleanParameter	pointSourceCorrected (description="Point Source Correction Applied (central -> total)", quantity="micrometer")
LongParameter	obsidSeg000 (description="SEGMENT 0: Observation Identifier", quantity="micrometer")
StringParameter	proposalSeg000 (description="SEGMENT 0: Proposal name", quantity="micrometer")
StringParameter	lineDescriptionSeg000 (description="SEGMENT 0: SLICE_INFO: spectral line: name, wavelength, line id", quantity="micrometer")
DateParameter	startDateSeg000 (description="SEGMENT 0: Start date of the observation", quantity="micrometer")
DateParameter	endDateSeg000 (description="SEGMENT 0: End date of the observation", quantity="micrometer")
DoubleParameter	spaxelRaSeg000 (description="SEGMENT 0: Right Ascension of the central spaxel", quantity="micrometer")
DoubleParameter	spaxelDecSeg000 (description="SEGMENT 0: Declination of the central spaxel", quantity="micrometer")
DoubleParameter	radialVelocitySeg000 (description="SEGMENT 0: Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
BooleanParameter	pointSourceCorrectedSeg000 (description="SEGMENT 0: Point Source Correction Applied (central -> total)", quantity="km s-1")
LongParameter	sliceNumber (description="Slice number", quantity="km s-1")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="km s-1")
<i>Columns</i>	
<i>table dataset</i>	(name="spectra", description="Table with point-source spectra")
<i>Metadata</i>	
LongParameter	obsidSeg000 (description="SEGMENT 0: Observation Identifier")
StringParameter	proposalSeg000 (description="SEGMENT 0: Proposal name")
StringParameter	lineDescriptionSeg000 (description="SEGMENT 0: SLICE_INFO: spectral line: name, wavelength, line id")
DateParameter	startDateSeg000 (description="SEGMENT 0: Start date of the observation")
DateParameter	endDateSeg000 (description="SEGMENT 0: End date of the observation")
DoubleParameter	spaxelRaSeg000 (description="SEGMENT 0: Right Ascension of the central spaxel")
DoubleParameter	spaxelDecSeg000 (description="SEGMENT 0: Declination of the central spaxel")
DoubleParameter	radialVelocitySeg000 (description="SEGMENT 0: Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
BooleanParameter	pointSourceCorrectedSeg000 (description="SEGMENT 0: Point Source Correction Applied (central -> total)", quantity="km s-1")

<i>Columns</i>	
<i>Int1d</i>	segment (description="Segment in concatenated spectra", quantity="none")
<i>Double1d</i>	wave (description="Wavelength", quantity="micrometer")
<i>String1d</i>	band (description="Spectral band", quantity="none")
<i>Double1d</i>	centralFlux (description="Flux from the central spaxel", quantity="Jy/pixel")
<i>Double1d</i>	centralError (description="Error in flux from the central spaxel", quantity="Jy/pixel")
<i>Double1d</i>	pointSourceFlux (description="Flux from the central spaxel, point source calibrated", quantity="Jy")
<i>Double1d</i>	pointSourceError (description="Error in flux from the central spaxel, point source calibrated", quantity="Jy")
<i>Double1d</i>	pointSourceScaledFlux (description="Flux from the central spaxel, scaled to the point source calibrated spectrum taken from the central 3x3 spaxels", quantity="Jy")
<i>Double1d</i>	pointSourceScaledError (description="Error in flux from the central spaxel, scaled to the point source calibrated spectrum taken from the central 3x3 spaxels", quantity="Jy")

3.3.29. PACS Product Level 2 - Spectroscopy red 1D spectrum product

<i>product (type="HPSSPECRS", description="Spectroscopy red 1D spectrum product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")

DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")

StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")

StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacsSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")

DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="micrometer")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
LongParameter	spaxelColumn (description="PACS Spaxel column", quantity="micrometer")
LongParameter	spaxelRow (description="PACS Spaxel row", quantity="micrometer")
DoubleParameter	spaxelRa (description="Right Ascension of the central spaxel", quantity="micrometer")
DoubleParameter	spaxelDec (description="Declination of the central spaxel", quantity="micrometer")
StringParameter	weights (description="null", quantity="micrometer")
StringParameter	flag (description="null", quantity="micrometer")
BooleanParameter	pointSourceCorrected (description="Point Source Correction Applied (central -> total)", quantity="micrometer")
LongParameter	obsidSeg000 (description="SEGMENT 0: Observation Identifier", quantity="micrometer")
StringParameter	proposalSeg000 (description="SEGMENT 0: Proposal name", quantity="micrometer")
StringParameter	lineDescriptionSeg000 (description="SEGMENT 0: SLICE_INFO: spectral line: name, wavelength, line id", quantity="micrometer")

DateParameter	startDateSeg000 (description="SEGMENT 0: Start date of the observation", quantity="micrometer")
DateParameter	endDateSeg000 (description="SEGMENT 0: End date of the observation", quantity="micrometer")
DoubleParameter	spaxelRaSeg000 (description="SEGMENT 0: Right Ascension of the central spaxel", quantity="micrometer")
DoubleParameter	spaxelDecSeg000 (description="SEGMENT 0: Declination of the central spaxel", quantity="micrometer")
DoubleParameter	radialVelocitySeg000 (description="SEGMENT 0: Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
BooleanParameter	pointSourceCorrectedSeg000 (description="SEGMENT 0: Point Source Correction Applied (central -> total)", quantity="km s-1")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="km s-1")
<i>Columns</i>	
<i>table dataset</i>	(name="spectra", description="Table with point-source spectra")
<i>Metadata</i>	
LongParameter	obsidSeg000 (description="SEGMENT 0: Observation Identifier")
StringParameter	proposalSeg000 (description="SEGMENT 0: Proposal name")
StringParameter	lineDescriptionSeg000 (description="SEGMENT 0: SLICE_INFO: spectral line: name, wavelength, line id")
DateParameter	startDateSeg000 (description="SEGMENT 0: Start date of the observation")
DateParameter	endDateSeg000 (description="SEGMENT 0: End date of the observation")
DoubleParameter	spaxelRaSeg000 (description="SEGMENT 0: Right Ascension of the central spaxel")
DoubleParameter	spaxelDecSeg000 (description="SEGMENT 0: Declination of the central spaxel")
DoubleParameter	radialVelocitySeg000 (description="SEGMENT 0: Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
BooleanParameter	pointSourceCorrectedSeg000 (description="SEGMENT 0: Point Source Correction Applied (central -> total)", quantity="km s-1")
<i>Columns</i>	
<i>IntId</i>	segment (description="Segment in concatenated spectra", quantity="none")
<i>DoubleId</i>	wave (description="Wavelength", quantity="micrometer")
<i>StringId</i>	band (description="Spectral band", quantity="none")
<i>DoubleId</i>	centralFlux (description="Flux from the central spaxel", quantity="Jy/pixel")
<i>DoubleId</i>	centralError (description="Error in flux from the central spaxel", quantity="Jy/pixel")
<i>DoubleId</i>	pointSourceFlux (description="Flux from the central spaxel, point source calibrated", quantity="Jy")
<i>DoubleId</i>	pointSourceError (description="Error in flux from the central spaxel, point source calibrated", quantity="Jy")

<i>DoubleId</i>	pointSourceScaledFlux (description="Flux from the central spaxel, scaled to the point source calibrated spectrum taken from the central 3x3 spaxels", quantity="Jy")
<i>DoubleId</i>	pointSourceScaledError (description="Error in flux from the central spaxel, scaled to the point source calibrated spectrum taken from the central 3x3 spaxels", quantity="Jy")

3.3.30. PACS Product Level 2 - Spectroscopy red 1D spectrum product

<i>product (type="HPSSPECRS", description="Spectroscopy red 1D spectrum product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")

LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")

StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	lWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")

LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")

DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="micrometer")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
LongParameter	spaxelColumn (description="PACS Spaxel column", quantity="micrometer")
LongParameter	spaxelRow (description="PACS Spaxel row", quantity="micrometer")
DoubleParameter	spaxelRa (description="Right Ascension of the central spaxel", quantity="micrometer")
DoubleParameter	spaxelDec (description="Declination of the central spaxel", quantity="micrometer")
StringParameter	weights (description="null", quantity="micrometer")
StringParameter	flag (description="null", quantity="micrometer")
BooleanParameter	pointSourceCorrected (description="Point Source Correction Applied (central -> total)", quantity="micrometer")
LongParameter	obsidSeg000 (description="SEGMENT 0: Observation Identifier", quantity="micrometer")
StringParameter	proposalSeg000 (description="SEGMENT 0: Proposal name", quantity="micrometer")
StringParameter	lineDescriptionSeg000 (description="SEGMENT 0: SLICE_INFO: spectral line: name, wavelength, line id", quantity="micrometer")
DateParameter	startDateSeg000 (description="SEGMENT 0: Start date of the observation", quantity="micrometer")
DateParameter	endDateSeg000 (description="SEGMENT 0: End date of the observation", quantity="micrometer")
DoubleParameter	spaxelRaSeg000 (description="SEGMENT 0: Right Ascension of the central spaxel", quantity="micrometer")
DoubleParameter	spaxelDecSeg000 (description="SEGMENT 0: Declination of the central spaxel", quantity="micrometer")
DoubleParameter	radialVelocitySeg000 (description="SEGMENT 0: Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
BooleanParameter	pointSourceCorrectedSeg000 (description="SEGMENT 0: Point Source Correction Applied (central -> total)", quantity="km s-1")
LongParameter	sliceNumber (description="Slice number", quantity="km s-1")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="km s-1")
<i>Columns</i>	

<i>table dataset</i>		<i>(name="spectra", description="Table with point-source spectra")</i>
<i>Metadata</i>		
LongParameter	obsidSeg000	(description="SEGMENT 0: Observation Identifier")
StringParameter	proposalSeg000	(description="SEGMENT 0: Proposal name")
StringParameter	lineDescriptionSeg000	(description="SEGMENT 0: SLICE_INFO: spectral line: name, wavelength, line id")
DateParameter	startDateSeg000	(description="SEGMENT 0: Start date of the observation")
DateParameter	endDateSeg000	(description="SEGMENT 0: End date of the observation")
DoubleParameter	spaxelRaSeg000	(description="SEGMENT 0: Right Ascension of the central spaxel")
DoubleParameter	spaxelDecSeg000	(description="SEGMENT 0: Declination of the central spaxel")
DoubleParameter	radialVelocitySeg000	(description="SEGMENT 0: Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
BooleanParameter	pointSourceCorrectedSeg000	(description="SEGMENT 0: Point Source Correction Applied (central -> total)", quantity="km s-1")
<i>Columns</i>		
<i>IntId</i>	segment	(description="Segment in concatenated spectra", quantity="none")
<i>DoubleId</i>	wave	(description="Wavelength", quantity="micrometer")
<i>StringId</i>	band	(description="Spectral band", quantity="none")
<i>DoubleId</i>	centralFlux	(description="Flux from the central spaxel", quantity="Jy/pixel")
<i>DoubleId</i>	centralError	(description="Error in flux from the central spaxel", quantity="Jy/pixel")
<i>DoubleId</i>	pointSourceFlux	(description="Flux from the central spaxel, point source calibrated", quantity="Jy")
<i>DoubleId</i>	pointSourceError	(description="Error in flux from the central spaxel, point source calibrated", quantity="Jy")
<i>DoubleId</i>	pointSourceScaledFlux	(description="Flux from the central spaxel, scaled to the point source calibrated spectrum taken from the central 3x3 spaxels", quantity="Jy")
<i>DoubleId</i>	pointSourceScaledError	(description="Error in flux from the central spaxel, scaled to the point source calibrated spectrum taken from the central 3x3 spaxels", quantity="Jy")

3.3.31. PACS Product Level 2 - Spectroscopy blue rebinned cube as table

<i>product</i>		<i>(type="HPSTBRBS", description="Spectroscopy blue rebinned cube as table")</i>
<i>Metadata</i>		
StringParameter	type	(description="Product Type Identification")
StringParameter	creator	(description="Generator of this product")

DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")

StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="????", quantity="deg")
DoubleParameter	pointedRefRa (description="????", quantity="deg")

DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")

LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="micrometer")
DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
<i>Columns</i>	

<i>table</i>	<i>(name="Spectra", description="Table of PACS rebinned spectra")</i>			
<i>dataset</i>				
<i>Metadata</i>				
<i>Columns</i>				
<i>Int1d</i>	<i>RasterLine</i>	(description="Raster Line", quantity="none")		
<i>Int1d</i>	<i>RasterColumn</i>	(description="Raster Column", quantity="none")		
<i>String1d</i>	<i>Band</i>	(description="Spectral Band", quantity="none")		
<i>Int1d</i>	<i>SpaxelNumber</i>	(description="Spaxel number", quantity="none")		
<i>Int1d</i>	<i>SpaxelRow</i>	(description="Spaxel row in PACS cube", quantity="none")		
<i>Int1d</i>	<i>SpaxelColumn</i>	(description="Spaxel column in PACS cube", quantity="none")		
<i>Double1d</i>	<i>RightAscension</i>	(description="Right Ascension", quantity="deg")		
<i>Double1d</i>	<i>Declination</i>	(description="Declination", quantity="deg")		
<i>Double1d</i>	<i>Wavelength</i>	(description="Wavelength", quantity="micrometer")		
<i>Double1d</i>	<i>Flux</i>	(description="Flux", quantity="Jy/pixel")		
<i>Double1d</i>	<i>FluxErr</i>	(description="Error on Flux", quantity="Jy/pixel")		
	<i>()</i>			
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")			

3.3.32. PACS Product Level 2 - Spectroscopy red rebinned cube as table

<i>product</i>	<i>(type="HPSTBRRS", description="Spectroscopy red rebinned cube as table")</i>			
<i>Metadata</i>				
<i>StringParameter</i>	<i>type</i>	(description="Product Type Identification")		
<i>StringParameter</i>	<i>creator</i>	(description="Generator of this product")		
<i>DateParameter</i>	<i>creationDate</i>	(description="Creation date of this product")		
<i>StringParameter</i>	<i>description</i>	(description="Name of this product")		
<i>StringParameter</i>	<i>instrument</i>	(description="Instrument attached to this product")		
<i>StringParameter</i>	<i>modelName</i>	(description="Model name attached to this product")		
<i>DateParameter</i>	<i>startDate</i>	(description="Start date of this product")		
<i>DateParameter</i>	<i>endDate</i>	(description="End date of this product")		
<i>StringParameter</i>	<i>formatVersion</i>	(description="Version of product format")		
<i>StringParameter</i>	<i>productNotes</i>	(description="null")		
<i>LongParameter</i>	<i>detRow</i>	(description="Number of detector rows")		
<i>LongParameter</i>	<i>detCol</i>	(description="Number of detector columns")		
<i>StringParameter</i>	<i>camName</i>	(description="Name of the Camera")		
<i>LongParameter</i>	<i>relTimeOffset</i>	(description="Offset btwn PACS internal CRDC counter and on-board time")		
<i>LongParameter</i>	<i>apid</i>	(description="Application Programme Identifier")		
<i>DoubleParameter</i>	<i>subType</i>	(description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")		

DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")

StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	lWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")

StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacsSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")

DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="micrometer")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
<i>Columns</i>	
<i>table dataset</i>	(name="Spectra", description="Table of PACS rebinned spectra")
<i>Metadata</i>	
<i>Columns</i>	
<i>Int1d</i>	RasterLine (description="Raster Line", quantity="none")
<i>Int1d</i>	RasterColumn (description="Raster Column", quantity="none")
<i>String1d</i>	Band (description="Spectral Band", quantity="none")
<i>Int1d</i>	SpaxelNumber (description="Spaxel number", quantity="none")
<i>Int1d</i>	SpaxelRow (description="Spaxel row in PACS cube", quantity="none")
<i>Int1d</i>	SpaxelColumn (description="Spaxel column in PACS cube", quantity="none")
<i>Double1d</i>	RightAscension (description="Right Ascension", quantity="deg")
<i>Double1d</i>	Declination (description="Declination", quantity="deg")
<i>Double1d</i>	Wavelength (description="Wavelength", quantity="micrometer")
<i>Double1d</i>	Flux (description="Flux", quantity="Jy/pixel")
<i>Double1d</i>	FluxErr (description="Error on Flux", quantity="Jy/pixel")

	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

3.4. PACS Photometry Level-2.5 products

3.5. PACS Photometry Level-3.0 products

3.6. PACS Spectroscopy Level-0 and Level-0.5 products

3.6.1. PACS Product Level 0 - HRS Spectrum Dataset of type: tune

<i>product (type="herschel.ia.dataset.Product(HifiSpectrumDataset)", description="HRS Spectrum Dataset of type: tune")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of Channels")
LongParameter	subbandstart_1 (description="Starting channel for subband 1")
LongParameter	subbandstart_2 (description="Starting channel for subband 2")
LongParameter	subbandstart_3 (description="Starting channel for subband 3")
LongParameter	subbandstart_4 (description="Starting channel for subband 4")
LongParameter	subbandstart_5 (description="Starting channel for subband 5")
LongParameter	subbandstart_6 (description="Starting channel for subband 6")
LongParameter	subbandstart_7 (description="Starting channel for subband 7")
LongParameter	subbandstart_8 (description="Starting channel for subband 8")
StringParameter	rowflag_9 (description="No valid Chopper information. value = 512")
StringParameter	rowflag_10 (description="No valid Commanded Chopper information. value = 1024")

StringParameter	rowflag_11 (description="No valid Frequency Monitor information. value = 2048")
StringParameter	rowflag_12 (description="No valid LO code offset information. value = 4096")
StringParameter	rowflag_13 (description="No valid LO code main information. value = 8192")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
LongParameter	subbandlength_1 (description="Length of subband 1")
LongParameter	subbandlength_2 (description="Length of subband 2")
LongParameter	subbandlength_3 (description="Length of subband 3")
LongParameter	subbandlength_4 (description="Length of subband 4")
LongParameter	subbandlength_5 (description="Length of subband 5")
LongParameter	subbandlength_6 (description="Length of subband 6")
LongParameter	subbandlength_7 (description="Length of subband 7")
LongParameter	subbandlength_8 (description="Length of subband 8")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")

DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
LongParameter	loadInterval (description="Load period in seconds", quantity="s")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	pattAngle (description="Spectral map rotation angle", quantity="degrees")
DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")
DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
LongParameter	n_cycles (description="Number of cycle in the map", quantity="degrees")
LongParameter	n_linesperscan (description="Number of lines per scan", quantity="degrees")
LongParameter	superSampling (description="Supersampling factor in the map", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
StringParameter	fileName (description="filename for exporting purposes", quantity="degrees")
<i>Columns</i>	
<i>table dataset</i>	(name="0001", description="HRS Spectrum Dataset of type: tune")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")

StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of Channels")
LongParameter	subbandstart_1 (description="Starting channel for subband 1")
LongParameter	subbandstart_2 (description="Starting channel for subband 2")
LongParameter	subbandstart_3 (description="Starting channel for subband 3")
LongParameter	subbandstart_4 (description="Starting channel for subband 4")
LongParameter	subbandstart_5 (description="Starting channel for subband 5")
LongParameter	subbandstart_6 (description="Starting channel for subband 6")
LongParameter	subbandstart_7 (description="Starting channel for subband 7")
LongParameter	subbandstart_8 (description="Starting channel for subband 8")
StringParameter	rowflag_9 (description="No valid Chopper information. value = 512")
StringParameter	rowflag_10 (description="No valid Commanded Chopper information. value = 1024")
StringParameter	rowflag_11 (description="No valid Frequency Monitor information. value = 2048")
StringParameter	rowflag_12 (description="No valid LO code offset information. value = 4096")
StringParameter	rowflag_13 (description="No valid LO code main information. value = 8192")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
LongParameter	subbandlength_1 (description="Length of subband 1")
LongParameter	subbandlength_2 (description="Length of subband 2")
LongParameter	subbandlength_3 (description="Length of subband 3")
LongParameter	subbandlength_4 (description="Length of subband 4")
LongParameter	subbandlength_5 (description="Length of subband 5")
LongParameter	subbandlength_6 (description="Length of subband 6")
LongParameter	subbandlength_7 (description="Length of subband 7")
LongParameter	subbandlength_8 (description="Length of subband 8")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")

LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
LongParameter	loadInterval (description="Load period in seconds", quantity="s")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	pattAngle (description="Spectral map rotation angle", quantity="degrees")
DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")
DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")

LongParameter	n_cycles (description="Number of cycle in the map", quantity="degrees")
LongParameter	n_linesperscan (description="Number of lines per scan", quantity="degrees")
LongParameter	superSampling (description="Supersampling factor in the map", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
<i>Columns</i>	
<i>Double2d</i>	CF (description="HRS Correlation factors (in counts)", quantity="1")
<i>Int1d</i>	bbtype (description="Building Block Type", quantity="none")
<i>Int1d</i>	bbnumber (description="Building Block Number", quantity="none")
<i>Int1d</i>	sequenceNumber (description="Integration Sequence Number", quantity="none")
<i>Int1d</i>	integrations (description="Number of Integrations", quantity="none")
<i>Int1d</i>	buffer (description="Integration Buffer", quantity="none")
<i>Int1d</i>	nrbytes (description="Number of Bytes", quantity="none")
<i>Int1d</i>	bitshift (description="Bit Shift", quantity="none")
<i>Long1d</i>	packetTime (description="Packetization Time", quantity="none")
<i>Long1d</i>	obsTime (description="Observation Time", quantity="none")
<i>Int1d</i>	rowflag (description="Dataframe Flag", quantity="none")
<i>Int1d</i>	df_transfer (description="DataFrame Transfer Counter", quantity="none")
<i>Double1d</i>	Chopper (description="Actual chopper positions", quantity="none")
<i>Double1d</i>	cmd_chopper (description="Commanded chopper positions", quantity="none")
<i>Bool1d</i>	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
<i>Double1d</i>	frequency_monitor (description="LSU Frequency Monitor", quantity="none")
<i>Int2d</i>	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")
<i>Bool2d</i>	blockselection (description="Block Selection", quantity="none")

<i>Int2d</i>	configuration (description="Configuration", quantity="none")
<i>Int2d</i>	duration (description="Integration Duration", quantity="none")
<i>Int2d</i>	offset (description="Offset", quantity="none")
<i>Int1d</i>	hk_transfer (description="hk_transfer", quantity="none")
<i>Int2d</i>	LO_S (description="Status of the LO : Locked (=1) / Unlocked (=0)", quantity="none")
<i>String1d</i>	Switch_S (description="Status of the input IF Switch : H/V", quantity="none")
<i>String1d</i>	Buffer_S (description="Buffer for ACS integration : BufferA/BufferB", quantity="none")
<i>String1d</i>	Unit_ID_S (description="Unit used : QM/FM", quantity="none")
<i>String1d</i>	Pol_S (description="Polar used : H/V", quantity="none")
<i>Double2d</i>	Attenuators (description="IRM attenuator values : 0-15.5 dB", quantity="dB")
<i>Double2d</i>	LO_F (description="LO Frequency values", quantity="MHz")
<i>Int2d</i>	LO_F_raw (description="LO Frequency raw values", quantity="MHz")
<i>Double1d</i>	DCDC_18P_C (description="DCDC current value for +18V", quantity="A")
<i>Double1d</i>	DCDC_8P_C (description="DCDC current value for +8V", quantity="A")
<i>Double1d</i>	DCDC_5P_C (description="DCDC current value for +5V", quantity="A")
<i>Double1d</i>	DCDC_3P3_C (description="DCDC current value for +3.3V", quantity="A")
<i>Double1d</i>	DCDC_1P1_C (description="DCDC current value for +1.1V", quantity="A")
<i>Double1d</i>	DCDC_5M_C (description="DCDC current value for -5V", quantity="A")
<i>Double2d</i>	DCDC_T (description="DCDC Temperature values", quantity="degC")
<i>Double1d</i>	ACS_18P_V (description="ACS voltage for +18V", quantity="V")
<i>Double1d</i>	ACS_8P_V (description="ACS voltage for +8V", quantity="V")
<i>Double1d</i>	ACS_5P_V (description="ACS voltage for +5V", quantity="V")
<i>Double1d</i>	ACS_Dig_3P3_V (description="ACS voltage for +3.3V (digital)", quantity="V")
<i>Double1d</i>	ACS_Ana_1P1_V (description="ACS voltage for +1.1V (analog)", quantity="V")
<i>Double1d</i>	ACS_5M_V (description="ACS voltage for -5V", quantity="V")
<i>Double1d</i>	ACS_Ana_1_3P3_V (description="ACS voltage for +3.3V (analog1)", quantity="V")
<i>Double1d</i>	ACS_Ana_2_3P3_V (description="ACS voltage for +3.3V (analog2)", quantity="V")
<i>Double2d</i>	ACS_T (description="ACS Temperature values", quantity="degC")
<i>Double1d</i>	IF_18P_V (description="IF voltage for +18V", quantity="V")
<i>Double1d</i>	IF_8P_V (description="IF voltage for +8V", quantity="V")

<i>Double1d</i>	IF_5P_V (description="IF voltage for +5V", quantity="V")
<i>Double1d</i>	IF_5M_V (description="IF voltage for -5V", quantity="V")
<i>Double1d</i>	IF_6P_V (description="IF voltage for +6V", quantity="V")
<i>Double2d</i>	IF_T (description="IF Temperature values", quantity="degC")
<i>Double2d</i>	hot_cold (description="Hot and cold temperatures of the Blackbody Calibrator", quantity="K")
<i>Double1d</i>	MJC_Hor (description="Calibrated mixer junction current, horizontal band 1", quantity="mA")
<i>Double1d</i>	MJC_Ver (description="Calibrated mixer junction current, vertical band 1", quantity="mA")
<i>Double1d</i>	LoFrequency (description="Local Oscillator Frequency", quantity="GHz")
<i>Double1d</i>	longitude (description="longitude (RA in equatorial coord)", quantity="deg")
<i>Double1d</i>	latitude (description="latitude (Decl in equatorial coord)", quantity="deg")
<i>Double1d</i>	posAngle (description="Position Angle", quantity="deg")
<i>Double1d</i>	longitudeError (description="longitude errors", quantity="arcsec")
<i>Double1d</i>	latitudeError (description="latitude errors", quantity="arcsec")
<i>Double1d</i>	posAngleError (description="Position Angle errors", quantity="arcsec")
<i>Double1d</i>	longitude_cmd (description="longitude (RA in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	latitude_cmd (description="latitude (Decl in equatorial coord) average H and V", quantity="deg")
<i>Int1d</i>	rasterLineNum (description="Raster line number", quantity="1")
<i>Int1d</i>	rasterColumnNum (description="Raster Column number", quantity="1")
<i>Int1d</i>	scanLineNum (description="Scan line number", quantity="1")
<i>Int1d</i>	nodCycleNum (description="Switching/nodding cycle number", quantity="1")
<i>Int1d</i>	customMapPointNum (description="Custom map pointing number", quantity="1")

3.6.2. PACS Product Level 0 - Level 0 Quality Product: Command Failures

<i>product (type="CommandFailureProduct", description="Level 0 Quality Product: Command Failures")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")

StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	version (description="Version of this product")
LongParameter	commandAcceptanceFailures (description="Max number of command acceptance failures")
LongParameter	commandExecutionFailures (description="Max number of command execution failures")
LongParameter	obsid (description="Observation Identifier")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted")
<i>Columns</i>	
<i>table dataset</i>	(name="CommandFailure", description="Level 0 Quality Product: Command Failures")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	commandAcceptanceFailures (description="Max number of command acceptance failures")
LongParameter	commandExecutionFailures (description="Max number of command execution failures")
LongParameter	obsid (description="Observation Identifier")
LongParameter	version (description="Version of this product")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted")
<i>Columns</i>	
<i>StringId</i>	ErrorType (description="null", quantity="none")
<i>StringId</i>	Time (description="null", quantity="none")
<i>StringId</i>	ErrorCode (description="null", quantity="none")
<i>LongId</i>	OBS_ID (description="null", quantity="none")
<i>LongId</i>	BB_ID (description="null", quantity="none")
<i>LongId</i>	BBType (description="null", quantity="none")
<i>LongId</i>	BBCount (description="null", quantity="none")

3.6.3. PACS Product Level 0 - Level 0 Quality Product: Runtime errors

<i>product (type="RuntimeErrorProduct", description="Level 0 Quality Product: Runtime errors")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	version (description="Version of this product")
LongParameter	runtimeErrors (description="Max number of TM Runtime error found")
LongParameter	obsid (description="Observation Identifier")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted")
<i>Columns</i>	
<i>table dataset (name="RuntimeError", description="Level 0 Quality Product: Runtime errors")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	runtimeErrors (description="Max number of TM Runtime error found")
LongParameter	obsid (description="Observation Identifier")
LongParameter	version (description="Version of this product")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted")
<i>Columns</i>	

3.6.4. PACS Product Level 0 - Level 0 Quality Product

<i>product (type="QHtpLevel0", description="Level 0 Quality Product")</i>
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<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	version (description="Version of this product")
LongParameter	obsid (description="Observation Identifier")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	unalignedHKdata (description="Max percentage of Dataframes which have unaligned HK")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted")
<i>Columns</i>	
<i>table dataset</i>	(name="DFQuality", description="Level 0 Quality Product")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	obsid (description="Observation Identifier")
LongParameter	version (description="Version of this product")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	unalignedHKdata (description="Max percentage of Dataframes which have unaligned HK")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted")
<i>Columns</i>	
<i>IntId</i>	dataset (description="dataset id, corresponding the the dataset in the HTP", quantity="none")
<i>StringId</i>	type (description="category of the Bbid", quantity="none")
<i>IntId</i>	Bbid (description="Building Block", quantity="none")
<i>IntId</i>	start (description="Start index for each block", quantity="none")
<i>IntId</i>	length (description="Length of each block", quantity="none")

<i>Int1d</i>	unalignedHKdata (description="UNALIGNED_HK", quantity="none")
<i>Int1d</i>	noChopperHKdata (description="NOCHOPPER", quantity="none")
<i>Int1d</i>	noCommandedChopperHKdata (description="NOCOMCHOP", quantity="none")
<i>Int1d</i>	noFrequencyMonitorHKdata (description="NOFREQMON", quantity="none")
<i>Int1d</i>	noLoCodeOffsetHKdata (description="NOLCOFFS", quantity="none")
<i>Int1d</i>	noLoCodeMainHKdata (description="NOLCMAIN", quantity="none")
<i>Int1d</i>	bbidCorrection (description="BBID_CORRECTION", quantity="none")
<i>Int1d</i>	zeroesInCF (description="ZEROES_IN_CF", quantity="none")

3.6.5. PACS Product Level 0 - Level 0 Quality Product: Dataframe count

<i>product</i> (type="DataframeCountQualityProduct", description="Level 0 Quality Product: Dataframe count")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	version (description="Version of this product")
LongParameter	Obsid (description="null")
LongParameter	Apid (description="null")
StringParameter	Mode (description="null")
LongParameter	HIFI Dataframes (description="null")
LongParameter	DownlinkDFPackets (description="null")
LongParameter	UplinkExpectedDFs (description="null")
LongParameter	obsid (description="Observation Identifier")
LongParameter	apid (description="Application Programme Identifier")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted")
<i>Columns</i>	
<i>table dataset</i>	(name="DataframeCount", description="Level 0 Quality Product: Dataframe count")

<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	Obsid (description="null")
LongParameter	Apid (description="null")
StringParameter	Mode (description="null")
LongParameter	HIFI Dataframes (description="null")
LongParameter	DownlinkDFPackets (description="null")
LongParameter	UplinkExpectedDFs (description="null")
LongParameter	obsid (description="Observation Identifier")
LongParameter	version (description="Version of this product")
LongParameter	apid (description="Application Programme Identifier")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted")
<i>Columns</i>	
<i>LongId</i>	BBType (description="null", quantity="none")
<i>LongId</i>	uplinkHrsH (description="null", quantity="none")
<i>LongId</i>	downlinkHrsH (description="null", quantity="none")

3.6.6. PACS Product Level 0 - Level 0 Quality Product: Dataframe count

<i>product (type="DataframeCountQualityProduct", description="Level 0 Quality Product: Dataframe count")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	version (description="Version of this product")

LongParameter	Obsid (description="null")
LongParameter	Apid (description="null")
StringParameter	Mode (description="null")
LongParameter	HIFI Dataframes (description="null")
LongParameter	DownlinkDFPackets (description="null")
LongParameter	UplinkExpectedDFs (description="null")
LongParameter	obsid (description="Observation Identifier")
LongParameter	apid (description="Application Programme Identifier")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted")
<i>Columns</i>	
<i>table dataset</i>	(name="DataframeCount", description="Level 0 Quality Product: Dataframe count")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	Obsid (description="null")
LongParameter	Apid (description="null")
StringParameter	Mode (description="null")
LongParameter	HIFI Dataframes (description="null")
LongParameter	DownlinkDFPackets (description="null")
LongParameter	UplinkExpectedDFs (description="null")
LongParameter	obsid (description="Observation Identifier")
LongParameter	version (description="Version of this product")
LongParameter	apid (description="Application Programme Identifier")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted")
<i>Columns</i>	
<i>LongId</i>	BBType (description="null", quantity="none")
<i>LongId</i>	uplinkHrsV (description="null", quantity="none")
<i>LongId</i>	downlinkHrsV (description="null", quantity="none")

3.6.7. PACS Product Level 0 - Level 0 Quality Product: Dataframe count

<i>product</i> (type="DataframeCountQualityProduct", description="Level 0 Quality Product: Dataframe count")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	version (description="Version of this product")
LongParameter	Obsid (description="null")
LongParameter	Apid (description="null")
StringParameter	Mode (description="null")
LongParameter	HIFI Dataframes (description="null")
LongParameter	DownlinkDFPackets (description="null")
LongParameter	UplinkExpectedDFs (description="null")
LongParameter	obsid (description="Observation Identifier")
LongParameter	apid (description="Application Programme Identifier")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted")
<i>Columns</i>	
<i>table dataset</i>	(name="DataframeCount", description="Level 0 Quality Product: Dataframe count")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	Obsid (description="null")
LongParameter	Apid (description="null")
StringParameter	Mode (description="null")
LongParameter	HIFI Dataframes (description="null")

LongParameter	DownlinkDFPackets (description="null")
LongParameter	UplinkExpectedDFs (description="null")
LongParameter	obsid (description="Observation Identifier")
LongParameter	version (description="Version of this product")
LongParameter	apid (description="Application Programme Identifier")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted")
Columns	
LongId	BBType (description="null", quantity="none")
LongId	uplinkWbsH (description="null", quantity="none")
LongId	downlinkWbsH (description="null", quantity="none")

3.6.8. PACS Product Level 0 - Level 0 Quality Product: Dataframe count

<i>product (type="DataframeCountQualityProduct", description="Level 0 Quality Product: Dataframe count")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	version (description="Version of this product")
LongParameter	Obsid (description="null")
LongParameter	Apid (description="null")
StringParameter	Mode (description="null")
LongParameter	HIFI Dataframes (description="null")
LongParameter	DownlinkDFPackets (description="null")
LongParameter	UplinkExpectedDFs (description="null")
LongParameter	obsid (description="Observation Identifier")
LongParameter	apid (description="Application Programme Identifier")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted")
Columns	
table dataset	(name="DataframeCount", description="Level 0 Quality Product: Dataframe count")
Metadata	

StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	Obsid (description="null")
LongParameter	Apid (description="null")
StringParameter	Mode (description="null")
LongParameter	HIFI Dataframes (description="null")
LongParameter	DownlinkDFPackets (description="null")
LongParameter	UplinkExpectedDFs (description="null")
LongParameter	obsid (description="Observation Identifier")
LongParameter	version (description="Version of this product")
LongParameter	apid (description="Application Programme Identifier")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted")
<i>Columns</i>	
<i>LongId</i>	BBType (description="null", quantity="none")
<i>LongId</i>	uplinkWbsV (description="null", quantity="none")
<i>LongId</i>	downlinkWbsV (description="null", quantity="none")

3.6.9. PACS Product Level 0 - WBS Spectrum Dataset of type: tune

<i>product (type="herchel.ia.dataset.Product(HifiSpectrumDataset)", description="WBS Spectrum Dataset of type: tune")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")

StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of Channels")
LongParameter	subbandstart_1 (description="Starting channel for subband 1")
LongParameter	subbandstart_2 (description="Starting channel for subband 2")
LongParameter	subbandstart_3 (description="Starting channel for subband 3")
LongParameter	subbandstart_4 (description="Starting channel for subband 4")
LongParameter	subbandlength_1 (description="Length of subband 1")
LongParameter	subbandlength_2 (description="Length of subband 2")
LongParameter	subbandlength_3 (description="Length of subband 3")
LongParameter	subbandlength_4 (description="Length of subband 4")
StringParameter	rowflag_9 (description="No valid Chopper information. value = 512")
StringParameter	rowflag_10 (description="No valid Commanded Chopper information. value = 1024")
StringParameter	rowflag_11 (description="No valid Frequency Monitor information. value = 2048")
StringParameter	rowflag_12 (description="No valid LO code offset information. value = 4096")
StringParameter	rowflag_13 (description="No valid LO code main information. value = 8192")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")

DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
LongParameter	loadInterval (description="Load period in seconds", quantity="s")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	pattAngle (description="Spectral map rotation angle", quantity="degrees")
DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")
DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
LongParameter	n_cycles (description="Number of cycle in the map", quantity="degrees")
LongParameter	n_linesperscan (description="Number of lines per scan", quantity="degrees")
LongParameter	superSampling (description="Supersampling factor in the map", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
StringParameter	badLoBand_4 (description="bad Lo in band", quantity="degrees")
StringParameter	fileName (description="filename for exporting purposes", quantity="degrees")

<i>Columns</i>	
<i>table dataset</i>	(name="0001", description="WBS Spectrum Dataset of type: tune")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of Channels")
LongParameter	subbandstart_1 (description="Starting channel for subband 1")
LongParameter	subbandstart_2 (description="Starting channel for subband 2")
LongParameter	subbandstart_3 (description="Starting channel for subband 3")
LongParameter	subbandstart_4 (description="Starting channel for subband 4")
LongParameter	subbandlength_1 (description="Length of subband 1")
LongParameter	subbandlength_2 (description="Length of subband 2")
LongParameter	subbandlength_3 (description="Length of subband 3")
LongParameter	subbandlength_4 (description="Length of subband 4")
StringParameter	rowflag_9 (description="No valid Chopper information. value = 512")
StringParameter	rowflag_10 (description="No valid Commanded Chopper information. value = 1024")
StringParameter	rowflag_11 (description="No valid Frequency Monitor information. value = 2048")
StringParameter	rowflag_12 (description="No valid LO code offset information. value = 4096")
StringParameter	rowflag_13 (description="No valid LO code main information. value = 8192")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
QuantifiableParameter	waveunit (description="Units of the WaveColumn")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")

LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
LongParameter	loadInterval (description="Load period in seconds", quantity="s")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	pattAngle (description="Spectral map rotation angle", quantity="degrees")
DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")
DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")

LongParameter	n_cycles (description="Number of cycle in the map", quantity="degrees")
LongParameter	n_linesperscan (description="Number of lines per scan", quantity="degrees")
LongParameter	superSampling (description="Supersampling factor in the map", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
StringParameter	badLoBand_4 (description="bad Lo in band", quantity="degrees")
<i>Columns</i>	
<i>Double2d</i>	flux (description="WBS flux (in counts)", quantity="none")
<i>Int1d</i>	bbtype (description="Building Block Type", quantity="none")
<i>Int1d</i>	bbnumber (description="Building Block Number", quantity="none")
<i>Int1d</i>	sequenceNumber (description="Integration Sequence Number", quantity="none")
<i>Int1d</i>	integrations (description="Number of Integrations", quantity="none")
<i>Int1d</i>	buffer (description="Integration Buffer", quantity="none")
<i>Int1d</i>	nrbytes (description="Number of Bytes", quantity="none")
<i>Int1d</i>	bitshift (description="Bit Shift", quantity="none")
<i>Long1d</i>	packetTime (description="Packetization Time", quantity="none")
<i>Long1d</i>	obsTime (description="Observation Time", quantity="none")
<i>Int1d</i>	rowflag (description="Dataframe Flag", quantity="none")
<i>Int1d</i>	df_transfer (description="DataFrame Transfer Counter", quantity="none")
<i>Double1d</i>	Chopper (description="Actual chopper positions", quantity="none")
<i>Double1d</i>	cmd_chopper (description="Commanded chopper positions", quantity="none")
<i>Bool1d</i>	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
<i>Double1d</i>	frequency_monitor (description="LSU Frequency Monitor", quantity="none")
<i>Int2d</i>	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")

<i>Int1d</i>	scancount (description="Integrated Scan Count", quantity="none")
<i>Double3d</i>	dark (description="Dark Current Data", quantity="none")
<i>Double2d</i>	channels (description="Channel", quantity="pixel")
<i>Int1d</i>	hk_transfer (description="hk_transfer", quantity="none")
<i>Int2d</i>	Band_ATT (description="null", quantity="none")
<i>Int1d</i>	IN_ATT (description="null", quantity="none")
<i>Double2d</i>	hot_cold (description="Hot and cold temperatures of the Blackbody Calibrator", quantity="K")
<i>Double1d</i>	MJC_Hor (description="Calibrated mixer junction current, horizontal band 1", quantity="mA")
<i>Double1d</i>	MJC_Ver (description="Calibrated mixer junction current, vertical band 1", quantity="mA")
<i>Double1d</i>	LoFrequency (description="Local Oscillator Frequency", quantity="GHz")
<i>Double1d</i>	longitude (description="longitude (RA in equatorial coord)", quantity="deg")
<i>Double1d</i>	latitude (description="latitude (Decl in equatorial coord)", quantity="deg")
<i>Double1d</i>	posAngle (description="Position Angle", quantity="deg")
<i>Double1d</i>	longitudeError (description="longitude errors", quantity="arcsec")
<i>Double1d</i>	latitudeError (description="latitude errors", quantity="arcsec")
<i>Double1d</i>	posAngleError (description="Position Angle errors", quantity="arcsec")
<i>Double1d</i>	longitude_cmd (description="longitude (RA in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	latitude_cmd (description="latitude (Decl in equatorial coord) average H and V", quantity="deg")
<i>Int1d</i>	rasterLineNum (description="Raster line number", quantity="1")
<i>Int1d</i>	rasterColumnNum (description="Raster Column number", quantity="1")
<i>Int1d</i>	scanLineNum (description="Scan line number", quantity="1")
<i>Int1d</i>	nodCycleNum (description="Switching/nodding cycle number", quantity="1")
<i>Int1d</i>	customMapPointNum (description="Custom map pointing number", quantity="1")
<i>Int2d</i>	badLo (description="bit 0=Bad LO; bit 1=Weak_spur; bit 2=Strong_spur; bit 3=Strong_instability; bit 4=IF_saturation;", quantity="none")

3.6.10. PACS Product Level 0.5 - The Zero check

<i>product (type="QWbsZero", description="The Zero check")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")

DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	version (description="Version of this product")
StringParameter	name (description="Name of this product")
BooleanParameter	checkZero (description="The global result of zero checks")
DoubleParameter	threshold_maximum (description="threshold_maximum")
DoubleParameter	threshold_average_maximum (description="threshold_average_maximum")
DoubleParameter	threshold_average_minimum (description="threshold_average_minimum")
DoubleParameter	threshold_variance (description="threshold_variance")
StringParameter	calVersion (description="HIFI calibration version")
<i>Columns</i>	
<i>table dataset</i>	(name="Zero quality table", description="Zero quality table")
<i>Metadata</i>	
<i>Columns</i>	
<i>DoubleId</i>	maximum (description="maximum", quantity="none")
<i>DoubleId</i>	average (description="average", quantity="none")
<i>DoubleId</i>	variance (description="variance", quantity="none")
<i>BoolId</i>	flag (description="flag", quantity="none")
<i>LongId</i>	time (description="time", quantity="none")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

3.6.11. PACS Product Level 0 - HPEVENTS

<i>product (type="HPEVENTS", description="HPEVENTS")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")

StringParameter	missionConfiguration (description="Mission Configuration")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")

StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")

DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
StringParameter	level (description="Product Level", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
<i>Columns</i>	
<i>table dataset</i>	(name="HPEVENTS", description="Generated from PacketSequence \$Revision: 1.1 \$")
<i>Metadata</i>	
StringParameter	revision (description="PacketSequence Revision from which this data was generated.")
<i>Columns</i>	
<i>LongId</i>	Time (description="Time [microseconds]", quantity="microseconds")
<i>LongId</i>	HD_SPARE_3 (description="HD_SPARE_3 [raw]", quantity="none")
<i>LongId</i>	EVENT_SID (description="EVENT_SID [raw]", quantity="none")
<i>StringId</i>	EVENT_COUNT_ID (description="EVENT_COUNT_ID", quantity="none")
<i>LongId</i>	HD_VERSION_NUMB (description="HD_VERSION_NUMB [raw]", quantity="none")
<i>LongId</i>	EVENT_OBSID (description="EVENT_OBSID [raw]", quantity="none")
<i>LongId</i>	HD_LENGTH (description="HD_LENGTH [raw]", quantity="none")
<i>LongId</i>	FIRST32BIT_TIME (description="FIRST32BIT_TIME [raw]", quantity="none")
<i>LongId</i>	HD_APID (description="HD_APID [raw]", quantity="none")
<i>LongId</i>	HD_SPARE_1 (description="HD_SPARE_1 [raw]", quantity="none")
<i>LongId</i>	HD_PACKET_TYPE (description="HD_PACKET_TYPE [raw]", quantity="none")
<i>DoubleId</i>	LAST_16BIT_TIME (description="LAST_16BIT_TIME [eng, s]", quantity="none")
<i>LongId</i>	HD_SPARE_2 (description="HD_SPARE_2 [raw]", quantity="none")
<i>LongId</i>	EVENT_BBID (description="EVENT_BBID [raw]", quantity="none")
<i>LongId</i>	HD_PUS_VERSION (description="HD_PUS_VERSION [raw]", quantity="none")

<i>LongId</i>	HD_SEG_FLAG (description="HD_SEG_FLAG [raw]", quantity="none")
<i>LongId</i>	HD_PCKT_SUBTYPE (description="HD_PCKT_SUBTYPE [raw]", quantity="none")
<i>StringId</i>	EVENT_ID (description="EVENT_ID", quantity="none")
<i>LongId</i>	HD_SRC_SEQ_CTN (description="HD_SRC_SEQ_CTN [raw]", quantity="none")
<i>LongId</i>	HD_DATA_FLAG (description="HD_DATA_FLAG [raw]", quantity="none")
<i>LongId</i>	HD_SOURCE_TYPE (description="HD_SOURCE_TYPE [raw]", quantity="none")
<i>LongId</i>	EVENT_COUNTER (description="EVENT_COUNTER [raw]", quantity="none")
<i>DoubleId</i>	PACKET_COUNTER (description="PACKET_COUNTER [raw]", quantity="none")
<i>DoubleId</i>	PARAMETER_A1 (description="PARAMETER_A1 [raw]", quantity="none")
<i>DoubleId</i>	PACKET_ECHO2 (description="PACKET_ECHO2 [raw]", quantity="none")
<i>DoubleId</i>	STATE (description="STATE [raw]", quantity="none")
<i>DoubleId</i>	PACKET_ECHO1 (description="PACKET_ECHO1 [raw]", quantity="none")
<i>DoubleId</i>	FCS_CRC (description="FCS_CRC [raw]", quantity="none")
<i>DoubleId</i>	PARAMETER_A (description="PARAMETER_A [raw]", quantity="none")
<i>DoubleId</i>	PIX_VALUE (description="PIX_VALUE [raw]", quantity="none")
<i>DoubleId</i>	STATUS (description="STATUS [raw]", quantity="none")
<i>DoubleId</i>	SECOND_VALUE_1 (description="SECOND_VALUE_1 [raw]", quantity="none")
<i>DoubleId</i>	FIRST_VALUE_1 (description="FIRST_VALUE_1 [raw]", quantity="none")
<i>DoubleId</i>	FIRST_WORD (description="FIRST_WORD [raw]", quantity="none")
<i>DoubleId</i>	1355_LINK_5 (description="1355_LINK_5 [raw]", quantity="none")
<i>DoubleId</i>	SECOND_WORD (description="SECOND_WORD [raw]", quantity="none")
<i>DoubleId</i>	SECOND_VALUE_2 (description="SECOND_VALUE_2 [raw]", quantity="none")
<i>DoubleId</i>	FIRST_VALUE_2 (description="FIRST_VALUE_2 [raw]", quantity="none")
<i>DoubleId</i>	II_COMD_WORD_6 (description="II_COMD_WORD_6 [raw]", quantity="none")
<i>DoubleId</i>	II_ACK_WORD_6 (description="II_ACK_WORD_6 [raw]", quantity="none")
<i>DoubleId</i>	I_COMD_WORD_6 (description="I_COMD_WORD_6 [raw]", quantity="none")
<i>DoubleId</i>	1355_LINK_6 (description="1355_LINK_6 [raw]", quantity="none")

<i>DoubleId</i>	I_ACK_WORD_6 (description="I_ACK_WORD_6 [raw]", quantity="none")
<i>LongId</i>	RECEIVED_WORD_8 (description="RECEIVED_WORD_8 [raw]", quantity="none")
<i>StringId</i>	1355_LINK_8 (description="1355_LINK_8", quantity="none")
<i>LongId</i>	HEADER_8 (description="HEADER_8 [raw]", quantity="none")
<i>LongId</i>	EXPEC_LENGTH_8 (description="EXPEC_LENGTH_8 [raw]", quantity="none")

3.6.12. PACS Product Level 0 - HPTCVERS

<i>product (type="HPTCVERS", description="HPTCVERS")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfiguration (description="Mission Configuration")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")

StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")

StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
StringParameter	level (description="Product Level", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
<i>Columns</i>	
<i>table dataset</i>	(name="HPTCVERS", description="Generated from PacketSequence \$Revision: 1.1 \$")
<i>Metadata</i>	

StringParameter	revision (description="PacketSequence Revision from which this data was generated.")
Columns	
LongId	Time (description="Time [microseconds]", quantity="microseconds")
LongId	HD_SPARE_3 (description="HD_SPARE_3 [raw]", quantity="none")
LongId	HD_VERSION_NUMB (description="HD_VERSION_NUMB [raw]", quantity="none")
LongId	HD_LENGTH (description="HD_LENGTH [raw]", quantity="none")
LongId	HD_APID (description="HD_APID [raw]", quantity="none")
LongId	HD_SPARE_1 (description="HD_SPARE_1 [raw]", quantity="none")
DoubleId	HD_PACKET_TYPE (description="HD_PACKET_TYPE [raw]", quantity="none")
LongId	HD_SPARE_2 (description="HD_SPARE_2 [raw]", quantity="none")
LongId	HD_PUS_VERSION (description="HD_PUS_VERSION [raw]", quantity="none")
LongId	HD_SEG_FLAG (description="HD_SEG_FLAG [raw]", quantity="none")
DoubleId	HD_PCKT_SUBTYPE (description="HD_PCKT_SUBTYPE [raw]", quantity="none")
LongId	HD_SRC_SEQ_CTN (description="HD_SRC_SEQ_CTN [raw]", quantity="none")
LongId	HD_DATA_FLAG (description="HD_DATA_FLAG [raw]", quantity="none")
LongId	HD_TIME (description="HD_TIME [raw]", quantity="none")
LongId	HD_SOURCE_TYPE (description="HD_SOURCE_TYPE [raw]", quantity="none")
LongId	PCKT_SEQ_CONTR (description="PCKT_SEQ_CONTR [raw]", quantity="none")
LongId	TC_PACKET_TYPE (description="TC_PACKET_TYPE [raw]", quantity="none")
LongId	TC_PACKET_ID (description="TC_PACKET_ID [raw]", quantity="none")
LongId	TC_PCKT_SUBTYPE (description="TC_PCKT_SUBTYPE [raw]", quantity="none")
LongId	FIRST32BIT_TIME (description="FIRST32BIT_TIME [raw]", quantity="none")
DoubleId	LAST_16BIT_TIME (description="LAST_16BIT_TIME [eng, s]", quantity="none")

3.6.13. PACS Product Level 0 - HPGENHKS

<i>product (type="HPGENHKS", description="HPGENHKS")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")

StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfiguration (description="Mission Configuration")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")

LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")

StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
StringParameter	level (description="Product Level", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
<i>Columns</i>	
<i>table dataset</i>	(name="HPGENHKS", description="Generated from PacketSequence \$Revision: 1.1 \$")
<i>Metadata</i>	
StringParameter	revision (description="PacketSequence Revision from which this data was generated.")
<i>Columns</i>	
<i>LongId</i>	Time (description="Time [microseconds]", quantity="microseconds")
<i>DoubleId</i>	DM_CAL_SRC_TEMP (description="DM_CAL_SRC_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_SEQ_ERR_NS (description="DM_SEQ_ERR_NS", quantity="none")
<i>LongId</i>	DM_DBR_ERROR (description="DM_DBR_ERROR [raw]", quantity="none")
<i>StringId</i>	DP_BUFFER_STAT (description="DP_BUFFER_STAT", quantity="none")
<i>DoubleId</i>	BOL_TEMP_TS (description="BOL_TEMP_TS [eng, K]", quantity="none")
<i>StringId</i>	DM_DRR_SENDING (description="DM_DRR_SENDING", quantity="none")
<i>StringId</i>	DM_DRC_LINK (description="DM_DRC_LINK", quantity="none")

<i>LongId</i>	DM_HKD_SPARE3 (description="DM_HKD_SPARE3 [raw]", quantity="none")
<i>StringId</i>	DM_DBR_LINK (description="DM_DBR_LINK", quantity="none")
<i>StringId</i>	DM_BPE_ERR_NS (description="DM_BPE_ERR_NS", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_FPU (description="DP_EV_BOL_I_FPU", quantity="none")
<i>StringId</i>	DP_SPUL_CMD (description="DP_SPUL_CMD", quantity="none")
<i>StringId</i>	DM_DRR_ERR_NS (description="DM_DRR_ERR_NS", quantity="none")
<i>LongId</i>	DM_BLUE_PAC_ENC (description="DM_BLUE_PAC_ENC [raw]", quantity="none")
<i>DoubleId</i>	DM_SPU_VCC_CUR (description="DM_SPU_VCC_CUR [eng, A]", quantity="none")
<i>LongId</i>	DM_HK_CTRL_STAT (description="DM_HK_CTRL_STAT [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_T_FPU (description="DP_EV_BOL_T_FPU", quantity="none")
<i>LongId</i>	DM_PM_DF_IND (description="DM_PM_DF_IND [raw]", quantity="none")
<i>LongId</i>	DM_HKCO_ERROR (description="DM_HKCO_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_DPUS_SPARE4 (description="DM_DPUS_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DM_HKD_SPARE1 (description="DM_HKD_SPARE1 [raw]", quantity="none")
<i>LongId</i>	DM_DPU_REC_STAT (description="DM_DPU_REC_STAT [raw]", quantity="none")
<i>StringId</i>	DP_OBCP_MANAGER (description="DP_OBCP_MANAGER", quantity="none")
<i>LongId</i>	HD_SPARE_3 (description="HD_SPARE_3 [raw]", quantity="none")
<i>StringId</i>	DM_BC_ERR_NS (description="DM_BC_ERR_NS", quantity="none")
<i>StringId</i>	DP_DEC_LINK (description="DP_DEC_LINK", quantity="none")
<i>LongId</i>	HD_VERSION_NUMB (description="HD_VERSION_NUMB [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_SP (description="BOL_TEMP_SP [eng, K]", quantity="none")
<i>StringId</i>	DP_SPUS_HK (description="DP_SPUS_HK", quantity="none")
<i>LongId</i>	DM_DBR_SPARE2 (description="DM_DBR_SPARE2 [raw]", quantity="none")
<i>LongId</i>	DM_HKCO_SPARE5 (description="DM_HKCO_SPARE5 [raw]", quantity="none")
<i>StringId</i>	DM_HKCO_TASK_AL (description="DM_HKCO_TASK_AL", quantity="none")
<i>LongId</i>	HD_SPARE_1 (description="HD_SPARE_1 [raw]", quantity="none")
<i>LongId</i>	HD_PACKET_TYPE (description="HD_PACKET_TYPE [raw]", quantity="none")

<i>LongId</i>	HD_SPARE_2 (description="HD_SPARE_2 [raw]", quantity="none")
<i>LongId</i>	SPS_VID (description="SPS_VID [raw]", quantity="none")
<i>LongId</i>	SPS_MEM_CNTRS (description="SPS_MEM_CNTRS [raw]", quantity="none")
<i>StringId</i>	DM_FPU_GR_TS_ST (description="DM_FPU_GR_TS_ST", quantity="none")
<i>StringId</i>	DM_BC_TASK_AL (description="DM_BC_TASK_AL", quantity="none")
<i>StringId</i>	DM_BC_LINK (description="DM_BC_LINK", quantity="none")
<i>LongId</i>	DM_BR_ERROR (description="DM_BR_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_FPU_FWP_TS_S (description="DM_FPU_FWP_TS_S", quantity="none")
<i>StringId</i>	DP_SPUS_CMD (description="DP_SPUS_CMD", quantity="none")
<i>DoubleId</i>	DM_DSP_TEMP (description="DM_DSP_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_BR_SIM_TIME (description="DM_BR_SIM_TIME", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_4 (description="BOL_TEMP_R_4 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_5 (description="BOL_TEMP_R_5 [eng, degC]", quantity="none")
<i>StringId</i>	SPS_DMC_ERROR (description="SPS_DMC_ERROR", quantity="none")
<i>StringId</i>	DP_SPUL_LINK (description="DP_SPUL_LINK", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_1 (description="BOL_TEMP_R_1 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_2 (description="BOL_TEMP_R_2 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_3 (description="BOL_TEMP_R_3 [eng, degC]", quantity="none")
<i>StringId</i>	DM_SW_ALIVE (description="DM_SW_ALIVE", quantity="none")
<i>StringId</i>	DM_SEQ_RUNNING (description="DM_SEQ_RUNNING", quantity="none")
<i>StringId</i>	DM_DPUR_TASK_AL (description="DM_DPUR_TASK_AL", quantity="none")
<i>DoubleId</i>	LAST_16BIT_TIME (description="LAST_16BIT_TIME [eng, s]", quantity="none")
<i>StringId</i>	DM_DRR_TASK_WR (description="DM_DRR_TASK_WR", quantity="none")
<i>DoubleId</i>	BOL_TEMP_B_3 (description="BOL_TEMP_B_3 [eng, degC]", quantity="none")
<i>StringId</i>	DM_DBR_TASK_AL (description="DM_DBR_TASK_AL", quantity="none")
<i>LongId</i>	DP_GEN_TM_LOST (description="DP_GEN_TM_LOST [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_B_2 (description="BOL_TEMP_B_2 [eng, degC]", quantity="none")

<i>DoubleId</i>	BOL_TEMP_B_1 (description="BOL_TEMP_B_1 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_DAQ (description="BOL_TEMP_DAQ [eng, degC]", quantity="none")
<i>StringId</i>	DP_TEST_MODE (description="DP_TEST_MODE", quantity="none")
<i>LongId</i>	DM_CHOP_CUR_POS (description="DM_CHOP_CUR_POS [raw]", quantity="none")
<i>StringId</i>	DM_RPE_TASK_AL (description="DM_RPE_TASK_AL", quantity="none")
<i>DoubleId</i>	DM_FW_PHOT_TEMP (description="DM_FW_PHOT_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DP_BLUE_SCIENCE (description="DP_BLUE_SCIENCE", quantity="none")
<i>StringId</i>	DP_UNIT (description="DP_UNIT", quantity="none")
<i>StringId</i>	DP_DMC_CMD (description="DP_DMC_CMD", quantity="none")
<i>LongId</i>	DM_TIME_2 (description="DM_TIME_2 [raw]", quantity="none")
<i>LongId</i>	DM_DRR_ERROR (description="DM_DRR_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_TIME_1 (description="DM_TIME_1 [raw]", quantity="none")
<i>LongId</i>	DP_SPUS_LINK_PE (description="DP_SPUS_LINK_PE [raw]", quantity="none")
<i>LongId</i>	DM_BR_SPARE2 (description="DM_BR_SPARE2 [raw]", quantity="none")
<i>LongId</i>	DM_PM_SF_IND (description="DM_PM_SF_IND [raw]", quantity="none")
<i>LongId</i>	DM_BPE_ERROR (description="DM_BPE_ERROR [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_EV (description="BOL_TEMP_EV [eng, K]", quantity="none")
<i>LongId</i>	DP_COM_SPL_PACK (description="DP_COM_SPL_PACK [raw]", quantity="none")
<i>StringId</i>	DM_DBC_LINK (description="DM_DBC_LINK", quantity="none")
<i>StringId</i>	DM_DPUS_ERR_NS (description="DM_DPUS_ERR_NS", quantity="none")
<i>StringId</i>	DM_FWPH_CUR_POS (description="DM_FWPH_CUR_POS", quantity="none")
<i>LongId</i>	DM_DPUS_ERROR (description="DM_DPUS_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_HKD_TASK_WR (description="DM_HKD_TASK_WR", quantity="none")
<i>StringId</i>	DP_STABLE_SPS (description="DP_STABLE_SPS", quantity="none")
<i>LongId</i>	DM_DECB_CTRL_PA (description="DM_DECB_CTRL_PA [raw]", quantity="none")
<i>LongId</i>	DM_BOL_READ_CNT (description="DM_BOL_READ_CNT [raw]", quantity="none")

<i>StringId</i>	DM_HKCO_ERR_NS (description="DM_HKCO_ERR_NS", quantity="none")
<i>LongId</i>	FIRST32BIT_TIME (description="FIRST32BIT_TIME [raw]", quantity="none")
<i>StringId</i>	DM_HKD_DIAGMODE (description="DM_HKD_DIAGMODE", quantity="none")
<i>StringId</i>	DP_1553_HANDLER (description="DP_1553_HANDLER", quantity="none")
<i>StringId</i>	DM_DRC_TASK_AL (description="DM_DRC_TASK_AL", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF12 (description="DM_LAST_ER_BF12 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF13 (description="DM_LAST_ER_BF13 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF14 (description="DM_LAST_ER_BF14 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF15 (description="DM_LAST_ER_BF15 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF10 (description="DM_LAST_ER_BF10 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF11 (description="DM_LAST_ER_BF11 [raw]", quantity="none")
<i>LongId</i>	DM_RPE_ERROR (description="DM_RPE_ERROR [raw]", quantity="none")
<i>DoubleId</i>	DM_PSC_V2 (description="DM_PSC_V2 [eng, mA]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF16 (description="DM_LAST_ER_BF16 [raw]", quantity="none")
<i>DoubleId</i>	DM_PSC_V1 (description="DM_PSC_V1 [eng, A]", quantity="none")
<i>DoubleId</i>	DM_PSC_V4 (description="DM_PSC_V4 [eng, A]", quantity="none")
<i>StringId</i>	DP_EEPROM_PROT (description="DP_EEPROM_PROT", quantity="none")
<i>DoubleId</i>	DM_PSC_V3 (description="DM_PSC_V3 [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_SPU_PS_TEMP (description="DM_SPU_PS_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_HKD_ERR_NS (description="DM_HKD_ERR_NS", quantity="none")
<i>LongId</i>	DP_COM_DMC (description="DP_COM_DMC [raw]", quantity="none")
<i>StringId</i>	DP_OBCP_RUN (description="DP_OBCP_RUN", quantity="none")
<i>StringId</i>	DP_IRQ3_TASK (description="DP_IRQ3_TASK", quantity="none")
<i>DoubleId</i>	DM_FPU_T2_TEMP (description="DM_FPU_T2_TEMP [eng, K]", quantity="none")
<i>DoubleId</i>	DM_REF_VOLT_0V (description="DM_REF_VOLT_0V [eng, V]", quantity="none")

<i>StringId</i>	DM_FPU_S1_TS_ST (description="DM_FPU_S1_TS_ST", quantity="none")
<i>LongId</i>	SID (description="SID [raw]", quantity="none")
<i>LongId</i>	SPS_PIX (description="SPS_PIX [raw]", quantity="none")
<i>DoubleId</i>	BOL_HEATER_FPU (description="BOL_HEATER_FPU [eng, A]", quantity="none")
<i>StringId</i>	DM_BPE_TASK_AL (description="DM_BPE_TASK_AL", quantity="none")
<i>StringId</i>	DM_FPU_CH_TS_ST (description="DM_FPU_CH_TS_ST", quantity="none")
<i>DoubleId</i>	DM_CPU_LOAD (description="DM_CPU_LOAD [eng, %]", quantity="none")
<i>LongId</i>	DM_BBID (description="DM_BBID [raw]", quantity="none")
<i>StringId</i>	DP_STABLE_SPL (description="DP_STABLE_SPL", quantity="none")
<i>StringId</i>	DM_DBR_ERR_NS (description="DM_DBR_ERR_NS", quantity="none")
<i>StringId</i>	DM_DPUR_ERR_NS (description="DM_DPUR_ERR_NS", quantity="none")
<i>StringId</i>	DM_FPU_FWS_TS_S (description="DM_FPU_FWS_TS_S", quantity="none")
<i>StringId</i>	SPS_DMC_LINK (description="SPS_DMC_LINK", quantity="none")
<i>DoubleId</i>	DM_FPU_T1_TEMP (description="DM_FPU_T1_TEMP [eng, K]", quantity="none")
<i>LongId</i>	SPL_VID (description="SPL_VID [raw]", quantity="none")
<i>LongId</i>	DM_BOL_CTRL_PAC (description="DM_BOL_CTRL_PAC [raw]", quantity="none")
<i>DoubleId</i>	BOL_HEAT_SP_SWT (description="BOL_HEAT_SP_SWT [eng, A]", quantity="none")
<i>LongId</i>	DP_COM_DMC_PACK (description="DP_COM_DMC_PACK [raw]", quantity="none")
<i>LongId</i>	DM_DECR_CTRL_PA (description="DM_DECR_CTRL_PA [raw]", quantity="none")
<i>LongId</i>	DM_BLUE_ENC_PAC (description="DM_BLUE_ENC_PAC [raw]", quantity="none")
<i>LongId</i>	DP_SPUL_LINK_DE (description="DP_SPUL_LINK_DE [raw]", quantity="none")
<i>DoubleId</i>	DM_SPU_VP_CUR (description="DM_SPU_VP_CUR [eng, mA]", quantity="none")
<i>LongId</i>	HD_APID (description="HD_APID [raw]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_2R (description="BOL_I_HEATER_2R [eng, A]", quantity="none")
<i>LongId</i>	DM_DRC_SPARE3 (description="DM_DRC_SPARE3 [raw]", quantity="none")
<i>LongId</i>	HD_SEG_FLAG (description="HD_SEG_FLAG [raw]", quantity="none")

<i>StringId</i>	DP_STABLE_DEC (description="DP_STABLE_DEC", quantity="none")
<i>LongId</i>	DM_BOL_STATUS (description="DM_BOL_STATUS [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ERR_ID (description="DM_LAST_ERR_ID [raw]", quantity="none")
<i>LongId</i>	DM_B_SPEC_READ (description="DM_B_SPEC_READ [raw]", quantity="none")
<i>LongId</i>	DM_RED_ENC_PAC (description="DM_RED_ENC_PAC [raw]", quantity="none")
<i>StringId</i>	DP_EV_DEC_SPC (description="DP_EV_DEC_SPC", quantity="none")
<i>DoubleId</i>	DM_SPU_VCC_VOL (description="DM_SPU_VCC_VOL [eng, V]", quantity="none")
<i>StringId</i>	DP_SPL_LINK (description="DP_SPL_LINK", quantity="none")
<i>LongId</i>	DM_IRS_CNT (description="DM_IRS_CNT [raw]", quantity="none")
<i>DoubleId</i>	DM_CHOPPER_TEMP (description="DM_CHOPPER_TEMP [eng, K]", quantity="none")
<i>StringId</i>	SPL_DMC_LINK (description="SPL_DMC_LINK", quantity="none")
<i>LongId</i>	DM_SW_SPARE5 (description="DM_SW_SPARE5 [raw]", quantity="none")
<i>LongId</i>	DP_COM_SPS_NACK (description="DP_COM_SPS_NACK [raw]", quantity="none")
<i>StringId</i>	DM_BR_TASK_WR (description="DM_BR_TASK_WR", quantity="none")
<i>LongId</i>	DM_BPE_SPARE4 (description="DM_BPE_SPARE4 [raw]", quantity="none")
<i>StringId</i>	DM_DBR_SENDING (description="DM_DBR_SENDING", quantity="none")
<i>LongId</i>	DP_DEC_LINK_PE (description="DP_DEC_LINK_PE [raw]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_1R (description="BOL_I_HEATER_1R [eng, A]", quantity="none")
<i>LongId</i>	DP_TC_LOST (description="DP_TC_LOST [raw]", quantity="none")
<i>StringId</i>	DP_RED_SCIENCE (description="DP_RED_SCIENCE", quantity="none")
<i>DoubleId</i>	SPS_CPUWORKLOAD (description="SPS_CPUWORKLOAD [eng, %]", quantity="none")
<i>StringId</i>	DM_DBC_TASK_WR (description="DM_DBC_TASK_WR", quantity="none")
<i>LongId</i>	DP_COM_SPUS (description="DP_COM_SPUS [raw]", quantity="none")
<i>LongId</i>	HD_SRC_SEQ_CTN (description="HD_SRC_SEQ_CTN [raw]", quantity="none")
<i>StringId</i>	DM_DPUR_TASK_WR (description="DM_DPUR_TASK_WR", quantity="none")

<i>LongId</i>	DP_COM_SPUL (description="DP_COM_SPUL [raw]", quantity="none")
<i>StringId</i>	DM_SEQ_TASK_AL (description="DM_SEQ_TASK_AL", quantity="none")
<i>DoubleId</i>	BOL_TEMP_SP_SWT (description="BOL_TEMP_SP_SWT [eng, K]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B2 (description="BOL_I_HEATER_B2 [eng, A]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B3 (description="BOL_I_HEATER_B3 [eng, A]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B4 (description="BOL_I_HEATER_B4 [eng, A]", quantity="none")
<i>StringId</i>	DM_RPE_LINK (description="DM_RPE_LINK", quantity="none")
<i>LongId</i>	DM_SEQ_STATUS (description="DM_SEQ_STATUS [raw]", quantity="none")
<i>LongId</i>	DM_DBC_SPARE3 (description="DM_DBC_SPARE3 [raw]", quantity="none")
<i>LongId</i>	DM_RPE_SPARE4 (description="DM_RPE_SPARE4 [raw]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B1 (description="BOL_I_HEATER_B1 [eng, A]", quantity="none")
<i>StringId</i>	DM_RPE_TASK_WR (description="DM_RPE_TASK_WR", quantity="none")
<i>StringId</i>	DP_WHICH_OBCP (description="DP_WHICH_OBCP", quantity="none")
<i>StringId</i>	DP_1553CHANNEL (description="DP_1553CHANNEL", quantity="none")
<i>LongId</i>	DM_DECB_CTRL_ST (description="DM_DECB_CTRL_ST [raw]", quantity="none")
<i>StringId</i>	DM_DBC_POWER (description="DM_DBC_POWER", quantity="none")
<i>LongId</i>	DP_COM_DMC_NACK (description="DP_COM_DMC_NACK [raw]", quantity="none")
<i>StringId</i>	DM_DRC_POWER (description="DM_DRC_POWER", quantity="none")
<i>StringId</i>	DP_COUNTER_SPS (description="DP_COUNTER_SPS", quantity="none")
<i>StringId</i>	DM_BR_TASK_AL (description="DM_BR_TASK_AL", quantity="none")
<i>LongId</i>	DM_DPUR_SPARE4 (description="DM_DPUR_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DP_SW_SUBVERS_ID (description="DP_SW_SUBVERS_ID [raw]", quantity="none")
<i>StringId</i>	DM_BPE_LINK (description="DM_BPE_LINK", quantity="none")
<i>LongId</i>	DP_COM_REC_DPU (description="DP_COM_REC_DPU [raw]", quantity="none")
<i>StringId</i>	DM_DPUS_TASK_WR (description="DM_DPUS_TASK_WR", quantity="none")

<i>StringId</i>	DM_DBC_TASK_AL (description="DM_DBC_TASK_AL", quantity="none")
<i>LongId</i>	DM_R_SPEC_READ (description="DM_R_SPEC_READ [raw]", quantity="none")
<i>LongId</i>	DM_DM_SF_IND (description="DM_DM_SF_IND [raw]", quantity="none")
<i>StringId</i>	DM_SEQ_IDLE (description="DM_SEQ_IDLE", quantity="none")
<i>LongId</i>	DM_RED_PAC_ENC (description="DM_RED_PAC_ENC [raw]", quantity="none")
<i>LongId</i>	DM_FPU_T_SEN_ST (description="DM_FPU_T_SEN_ST [raw]", quantity="none")
<i>StringId</i>	DM_HKD_TASK_AL (description="DM_HKD_TASK_AL", quantity="none")
<i>LongId</i>	DM_DECB_REC_STA (description="DM_DECB_REC_STA [raw]", quantity="none")
<i>LongId</i>	DM_BOL_CTRL_STA (description="DM_BOL_CTRL_STA [raw]", quantity="none")
<i>StringId</i>	DM_DRC_ERR_NS (description="DM_DRC_ERR_NS", quantity="none")
<i>DoubleId</i>	DM_REF_VOLT_5V (description="DM_REF_VOLT_5V [eng, V]", quantity="none")
<i>StringId</i>	DP_CONTROLLER (description="DP_CONTROLLER", quantity="none")
<i>LongId</i>	DM_DPU_SEN_STAT (description="DM_DPU_SEN_STAT [raw]", quantity="none")
<i>LongId</i>	DP_COM_SPL_NACK (description="DP_COM_SPL_NACK [raw]", quantity="none")
<i>LongId</i>	SPL_CI (description="SPL_CI [raw]", quantity="none")
<i>LongId</i>	HD_SOURCE_TYPE (description="HD_SOURCE_TYPE [raw]", quantity="none")
<i>DoubleId</i>	BOL_HEAT_EV_SWT (description="BOL_HEAT_EV_SWT [eng, A]", quantity="none")
<i>LongId</i>	DM_HKD_ERROR (description="DM_HKD_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_SW_GLOBAL_ST (description="DM_SW_GLOBAL_ST [raw]", quantity="none")
<i>StringId</i>	DM_BR_ERR_NS (description="DM_BR_ERR_NS", quantity="none")
<i>DoubleId</i>	DP_T (description="DP_T [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_PSU_2 (description="BOL_TEMP_PSU_2 [eng, degC]", quantity="none")
<i>LongId</i>	DM_DECB_REC_PAC (description="DM_DECB_REC_PAC [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_PSU_1 (description="BOL_TEMP_PSU_1 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_7 (description="BOL_PWR_ANA_P_7 [eng, V]", quantity="none")

<i>LongId</i>	DP_SPUL_LINK_PE (description="DP_SPUL_LINK_PE [raw]", quantity="none")
<i>StringId</i>	DP_BURST_MODE (description="DP_BURST_MODE", quantity="none")
<i>LongId</i>	DM_DPU_SEND_PAC (description="DM_DPU_SEND_PAC [raw]", quantity="none")
<i>StringId</i>	DM_FPU_S2_TS_ST (description="DM_FPU_S2_TS_ST", quantity="none")
<i>StringId</i>	DP_DMC_LINK (description="DP_DMC_LINK", quantity="none")
<i>LongId</i>	DM_VID (description="DM_VID [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF5 (description="DM_LAST_ER_BF5 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF6 (description="DM_LAST_ER_BF6 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF3 (description="DM_LAST_ER_BF3 [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_V_PWR (description="DP_EV_BOL_V_PWR", quantity="none")
<i>LongId</i>	SPL_PIX (description="SPL_PIX [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF4 (description="DM_LAST_ER_BF4 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF9 (description="DM_LAST_ER_BF9 [raw]", quantity="none")
<i>LongId</i>	DM_BOL_REC_STAT (description="DM_BOL_REC_STAT [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF7 (description="DM_LAST_ER_BF7 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF8 (description="DM_LAST_ER_BF8 [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_SP2 (description="DP_EV_BOL_I_SP2", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF1 (description="DM_LAST_ER_BF1 [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_BIAS (description="DP_EV_BOL_BIAS", quantity="none")
<i>LongId</i>	DM_HK_DIAG_STAT (description="DM_HK_DIAG_STAT [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF2 (description="DM_LAST_ER_BF2 [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_SP1 (description="DP_EV_BOL_I_SP1", quantity="none")
<i>StringId</i>	DP_COUNTER_DEC (description="DP_COUNTER_DEC", quantity="none")
<i>LongId</i>	DP_STATUS (description="DP_STATUS [raw]", quantity="none")
<i>StringId</i>	DP_EVENT_DEC (description="DP_EVENT_DEC", quantity="none")
<i>LongId</i>	DM_DPUR_ERROR (description="DM_DPUR_ERROR [raw]", quantity="none")

<i>StringId</i>	DP_SPS_LINK (description="DP_SPS_LINK", quantity="none")
<i>LongId</i>	DP_COM_REJ_DPU (description="DP_COM_REJ_DPU [raw]", quantity="none")
<i>LongId</i>	DM_GRAT_CUR_POS (description="DM_GRAT_CUR_POS [raw]", quantity="none")
<i>LongId</i>	DM_DM_DF_IND (description="DM_DM_DF_IND [raw]", quantity="none")
<i>StringId</i>	DM_RPE_ERR_NS (description="DM_RPE_ERR_NS", quantity="none")
<i>LongId</i>	DM_OBSID (description="DM_OBSID [raw]", quantity="none")
<i>StringId</i>	DP_HK_MONITOR (description="DP_HK_MONITOR", quantity="none")
<i>LongId</i>	DM_DECR_REC_STA (description="DM_DECR_REC_STA [raw]", quantity="none")
<i>StringId</i>	DM_DBC_ERR_NS (description="DM_DBC_ERR_NS", quantity="none")
<i>DoubleId</i>	DM_SPU_PSU_P15V (description="DM_SPU_PSU_P15V [eng, V]", quantity="none")
<i>DoubleId</i>	DM_SPU_LWL_TEMP (description="DM_SPU_LWL_TEMP [eng, K]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_5 (description="DM_CUSTOM_ENT_5 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_4 (description="DM_CUSTOM_ENT_4 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_7 (description="DM_CUSTOM_ENT_7 [raw]", quantity="none")
<i>LongId</i>	DP_DEC_LINK_DE (description="DP_DEC_LINK_DE [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_6 (description="DM_CUSTOM_ENT_6 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_9 (description="DM_CUSTOM_ENT_9 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_8 (description="DM_CUSTOM_ENT_8 [raw]", quantity="none")
<i>StringId</i>	DP_HK_CHK (description="DP_HK_CHK", quantity="none")
<i>LongId</i>	DM_DECR_CTRL_ST (description="DM_DECR_CTRL_ST [raw]", quantity="none")
<i>LongId</i>	HD_DATA_FLAG (description="HD_DATA_FLAG [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_1 (description="DM_CUSTOM_ENT_1 [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_T_WE (description="DP_EV_BOL_T_WE", quantity="none")
<i>StringId</i>	DM_DRC_TASK_WR (description="DM_DRC_TASK_WR", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_3 (description="DM_CUSTOM_ENT_3 [raw]", quantity="none")

<i>LongId</i>	DM_CUSTOM_ENT_2 (description="DM_CUSTOM_ENT_2 [raw]", quantity="none")
<i>StringId</i>	DM_DPUS_LINK (description="DM_DPUS_LINK", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_7 (description="BOL_PWR_DIG_7 [eng, V]", quantity="none")
<i>LongId</i>	DM_BC_SPARE4 (description="DM_BC_SPARE4 [raw]", quantity="none")
<i>StringId</i>	DM_DBR_SIM_TIME (description="DM_DBR_SIM_TIME", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_RO (description="DP_EV_BOL_I_RO", quantity="none")
<i>StringId</i>	DM_SW_COPY_OBS (description="DM_SW_COPY_OBS", quantity="none")
<i>StringId</i>	DM_SEQ_TASK_WR (description="DM_SEQ_TASK_WR", quantity="none")
<i>StringId</i>	DM_SW_ERR (description="DM_SW_ERR", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU_ST (description="BOL_TEMP_FPU_ST [eng, K]", quantity="none")
<i>StringId</i>	DM_FWSP_CUR_POS (description="DM_FWSP_CUR_POS", quantity="none")
<i>StringId</i>	DM_BR_SENDING (description="DM_BR_SENDING", quantity="none")
<i>StringId</i>	DP_EVENT_SPU (description="DP_EVENT_SPU", quantity="none")
<i>StringId</i>	DM_DPUS_TASK_AL (description="DM_DPUS_TASK_AL", quantity="none")
<i>StringId</i>	DM_DPUR_LINK (description="DM_DPUR_LINK", quantity="none")
<i>DoubleId</i>	DP_VOL_15P (description="DP_VOL_15P [eng, V]", quantity="none")
<i>StringId</i>	DM_FPU_CS_TS_ST (description="DM_FPU_CS_TS_ST", quantity="none")
<i>DoubleId</i>	DM_FW_SPEC_TEMP (description="DM_FW_SPEC_TEMP [eng, K]", quantity="none")
<i>DoubleId</i>	DP_VOL_15N (description="DP_VOL_15N [eng, V]", quantity="none")
<i>StringId</i>	DM_BR_LINK (description="DM_BR_LINK", quantity="none")
<i>StringId</i>	DM_HKCO_TASK_WR (description="DM_HKCO_TASK_WR", quantity="none")
<i>LongId</i>	SPS_CI (description="SPS_CI [raw]", quantity="none")
<i>StringId</i>	DM_DRR_TASK_AL (description="DM_DRR_TASK_AL", quantity="none")
<i>DoubleId</i>	DP_WORK_LOAD (description="DP_WORK_LOAD [eng, %]", quantity="none")
<i>LongId</i>	DP_HK_LOST (description="DP_HK_LOST [raw]", quantity="none")

<i>DoubleId</i>	DM_GRATING_TEMP (description="DM_GRATING_TEMP [eng, K]", quantity="none")
<i>LongId</i>	HD_LENGTH (description="HD_LENGTH [raw]", quantity="none")
<i>LongId</i>	DP_COM_SPS_PACK (description="DP_COM_SPS_PACK [raw]", quantity="none")
<i>LongId</i>	DP_1_8_REJECTED (description="DP_1_8_REJECTED [raw]", quantity="none")
<i>LongId</i>	DM_DRR_SPARE2 (description="DM_DRR_SPARE2 [raw]", quantity="none")
<i>LongId</i>	DM_SEQ_ERROR (description="DM_SEQ_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_DRC_ERROR (description="DM_DRC_ERROR [raw]", quantity="none")
<i>StringId</i>	DP_1355_LINK (description="DP_1355_LINK", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU1 (description="BOL_TEMP_FPU1 [eng, K]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU2 (description="BOL_TEMP_FPU2 [eng, K]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_EV_SWT (description="BOL_TEMP_EV_SWT [eng, K]", quantity="none")
<i>LongId</i>	HD_PCKT_SUBTYPE (description="HD_PCKT_SUBTYPE [raw]", quantity="none")
<i>LongId</i>	DM_DBC_ERROR (description="DM_DBC_ERROR [raw]", quantity="none")
<i>LongId</i>	DP_1_2_REJECTED (description="DP_1_2_REJECTED [raw]", quantity="none")
<i>StringId</i>	DM_BPE_TASK_WR (description="DM_BPE_TASK_WR", quantity="none")
<i>StringId</i>	DP_AF_24_SPARE (description="DP_AF_24_SPARE", quantity="none")
<i>LongId</i>	DM_SW_ERROR (description="DM_SW_ERROR [raw]", quantity="none")
<i>DoubleId</i>	DM_DCDC_TEMP (description="DM_DCDC_TEMP [eng, K]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT10 (description="DM_CUSTOM_ENT10 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_7 (description="BOL_PWR_ANA_N_7 [eng, V]", quantity="none")
<i>StringId</i>	DP_1355_HANDLER (description="DP_1355_HANDLER", quantity="none")
<i>StringId</i>	SPL_DMC_ERROR (description="SPL_DMC_ERROR", quantity="none")
<i>DoubleId</i>	DM_SPU_SWL_TEMP (description="DM_SPU_SWL_TEMP [eng, K]", quantity="none")
<i>LongId</i>	DM_HK_DIAG_PERI (description="DM_HK_DIAG_PERI [raw]", quantity="none")
<i>StringId</i>	DM_DRR_SIM_TIME (description="DM_DRR_SIM_TIME", quantity="none")

<i>LongId</i>	HD_PUS_VERSION (description="HD_PUS_VERSION [raw]", quantity="none")
<i>LongId</i>	DP_SPARE (description="DP_SPARE [raw]", quantity="none")
<i>LongId</i>	DP_SW_VERS_ID (description="DP_SW_VERS_ID [raw]", quantity="none")
<i>StringId</i>	DP_SPUL_HK (description="DP_SPUL_HK", quantity="none")
<i>LongId</i>	DM_BOL_REC_PAC (description="DM_BOL_REC_PAC [raw]", quantity="none")
<i>StringId</i>	DP_COUNTER_SPEC (description="DP_COUNTER_SPEC", quantity="none")
<i>DoubleId</i>	DP_VOL_25P (description="DP_VOL_25P [eng, V]", quantity="none")
<i>LongId</i>	DP_EVENT_LOST (description="DP_EVENT_LOST [raw]", quantity="none")
<i>StringId</i>	DM_DRR_LINK (description="DM_DRR_LINK", quantity="none")
<i>DoubleId</i>	SPL_CPUWORKLOAD (description="SPL_CPUWORKLOAD [eng, %]", quantity="none")
<i>StringId</i>	DM_DBR_TASK_WR (description="DM_DBR_TASK_WR", quantity="none")
<i>StringId</i>	DP_SPUS_LINK (description="DP_SPUS_LINK", quantity="none")
<i>StringId</i>	DP_EVENT_DPU (description="DP_EVENT_DPU", quantity="none")
<i>LongId</i>	DM_SEQ_SPARE2 (description="DM_SEQ_SPARE2 [raw]", quantity="none")
<i>DoubleId</i>	DP_VOL_5P (description="DP_VOL_5P [eng, V]", quantity="none")
<i>LongId</i>	DM_DPU_REC_PAC (description="DM_DPU_REC_PAC [raw]", quantity="none")
<i>StringId</i>	DP_COUNTER_SPL (description="DP_COUNTER_SPL", quantity="none")
<i>LongId</i>	DM_SEQ_SPARE1 (description="DM_SEQ_SPARE1 [raw]", quantity="none")
<i>StringId</i>	DM_BC_TASK_WR (description="DM_BC_TASK_WR", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_HEA (description="DP_EV_BOL_I_HEA", quantity="none")
<i>StringId</i>	DP_INIT (description="DP_INIT", quantity="none")
<i>LongId</i>	SPL_MEM_CNTS (description="SPL_MEM_CNTS [raw]", quantity="none")
<i>DoubleId</i>	BOL_HEATER_SP (description="BOL_HEATER_SP [eng, A]", quantity="none")
<i>StringId</i>	DP_COUNTER_PHOT (description="DP_COUNTER_PHOT", quantity="none")
<i>LongId</i>	DP_AF_STATUS (description="DP_AF_STATUS [raw]", quantity="none")
<i>LongId</i>	DM_DECR_REC_PAC (description="DM_DECR_REC_PAC [raw]", quantity="none")
<i>LongId</i>	DP_SPUS_LINK_DE (description="DP_SPUS_LINK_DE [raw]", quantity="none")

<i>StringId</i>	DP_TM_RATE (description="DP_TM_RATE", quantity="none")
<i>StringId</i>	DP_DMC_HK (description="DP_DMC_HK", quantity="none")
<i>LongId</i>	DM_BC_ERROR (description="DM_BC_ERROR [raw]", quantity="none")

3.6.14. PACS Product Level 0 - DecMec Data Spectrometer blue

<i>product (type="HPSDMCBS", description="DecMec Data Spectrometer blue")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
StringParameter	level (description="Product Level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")

StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")

StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
<i>Columns</i>	
<i>table dataset</i>	(name="DmcHeader", description="Status")
<i>Metadata</i>	

StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
LongParameter	DIM2 (description="Number of measures per status parameter")
Columns	
Int1d	RESETINDEX (description="Indicates the reset index of the status parameters", quantity="none")
Int1d	OBSID (description="Identifier of the observation", quantity="none")
Int1d	BBID (description="Building block type", quantity="none")
Int2d	LBL (description="Label", quantity="none")
Int2d	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
Int2d	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
Long2d	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
Int2d	VLD (description="Validity flag set by DecMec", quantity="none")
Int2d	CPR (description="Chopper position", quantity="none")
Int2d	WPR (description="Filter wheel Position", quantity="none")
Int2d	GPR (description="Grating Position", quantity="none")
Int2d	CRCRMP (description="Readout counter within an integration ramp", quantity="none")
Int2d	RRR (description="Readouts in Ramp", quantity="none")
Int2d	CRDC (description="Current Readout counter since last time reset", quantity="none")
Int2d	CRECR (description="CRE status word", quantity="none")

3.6.15. PACS Product Level 0 - DecMec Data Spectrometer red

<i>product (type="HPSDMCRS", description="DecMec Data Spectrometer red")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")

StringParameter	level (description="Product Level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")

StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")

DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
<i>Columns</i>	
<i>table dataset</i>	(name="DmcHeader", description="Status")
<i>Metadata</i>	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
LongParameter	DIM2 (description="Number of measures per status parameter")
<i>Columns</i>	
<i>Int1d</i>	RESETINDEX (description="Indicates the reset index of the status parameters", quantity="none")
<i>Int1d</i>	OBSID (description="Identifier of the observation", quantity="none")
<i>Int1d</i>	BBID (description="Building block type", quantity="none")
<i>Int2d</i>	LBL (description="Label", quantity="none")
<i>Int2d</i>	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
<i>Int2d</i>	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
<i>Long2d</i>	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
<i>Int2d</i>	VLD (description="Validity flag set by DecMec", quantity="none")
<i>Int2d</i>	CPR (description="Chopper position", quantity="none")
<i>Int2d</i>	WPR (description="Filter wheel Position", quantity="none")
<i>Int2d</i>	GPR (description="Grating Position", quantity="none")
<i>Int2d</i>	CRCRMP (description="Readout counter within an integration ramp", quantity="none")
<i>Int2d</i>	RRR (description="Readouts in Ramp", quantity="none")
<i>Int2d</i>	CRDC (description="Current Readout counter since last time reset", quantity="none")
<i>Int2d</i>	CRECR (description="CRE status word", quantity="none")

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3.6.16. PACS Product Level 0 - Fitted Data Spectrometer blue

<i>product (type="HPSFITBS", description="Fitted Data Spectrometer blue")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product Level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")

StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")

BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")

DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
Columns	
array dataset	(description="null")
Metadata	
Columns	
Double3d	(description="null", quantity="none")

3.6.17. PACS Product Level 0 - Fitted Data Spectrometer red

<i>product (type="HPSFITRS", description="Fitted Data Spectrometer red")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")

LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product Level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")

StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")

StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
<i>Columns</i>	
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double3d</i>	(description="null", quantity="none")

3.6.18. PACS Product Level 0 - HPSHKS

<i>product (type="HPSHKS", description="HPSHKS")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfiguration (description="Mission Configuration")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")

StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")

BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")

StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
StringParameter	level (description="Product Level", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
Columns	
table dataset	(name="HPSHKS", description="Generated from PacketSequence \$Revision: 1.1 \$")
Metadata	
StringParameter	revision (description="PacketSequence Revision from which this data was generated.")
Columns	
LongId	Time (description="Time [microseconds]", quantity="microseconds")
StringId	DM_SEQ_ERR_NS (description="DM_SEQ_ERR_NS", quantity="none")
StringId	DM_CS1C_COMMUT (description="DM_CS1C_COMMUT", quantity="none")
LongId	DM_FW_SPEC_CTRL (description="DM_FW_SPEC_CTRL [raw]", quantity="none")
DoubleId	DM_DECB_BR_CM_4 (description="DM_DECB_BR_CM_4 [eng, V]", quantity="none")
LongId	DM_DBR_ERROR (description="DM_DBR_ERROR [raw]", quantity="none")
DoubleId	DM_DECB_BR_CM_3 (description="DM_DECB_BR_CM_3 [eng, V]", quantity="none")
StringId	DP_BUFFER_STAT (description="DP_BUFFER_STAT", quantity="none")
DoubleId	BOL_TEMP_TS (description="BOL_TEMP_TS [eng, K]", quantity="none")
LongId	DM_HKD_SPARE3 (description="DM_HKD_SPARE3 [raw]", quantity="none")
DoubleId	DM_DECR_TS_2_2 (description="DM_DECR_TS_2_2 [eng, K]", quantity="none")
StringId	DM_DBR_LINK (description="DM_DBR_LINK", quantity="none")
DoubleId	DM_DECR_TS_2_1 (description="DM_DECR_TS_2_1 [eng, K]", quantity="none")
StringId	DM_BPE_ERR_NS (description="DM_BPE_ERR_NS", quantity="none")
StringId	DP_EV_BOL_I_FPU (description="DP_EV_BOL_I_FPU", quantity="none")
StringId	DM_DRR_ERR_NS (description="DM_DRR_ERR_NS", quantity="none")

<i>DoubleId</i>	DM_SPU_VCC_CUR (description="DM_SPU_VCC_CUR [eng, A]", quantity="none")
<i>LongId</i>	DM_DPUS_SPARE4 (description="DM_DPUS_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DM_HKD_SPARE1 (description="DM_HKD_SPARE1 [raw]", quantity="none")
<i>StringId</i>	DM_CC_SYNCHRO (description="DM_CC_SYNCHRO", quantity="none")
<i>DoubleId</i>	DM_DECB_IGND_4 (description="DM_DECB_IGND_4 [eng, mA]", quantity="none")
<i>LongId</i>	DM_DET_SIM_PER (description="DM_DET_SIM_PER [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_IGND_3 (description="DM_DECB_IGND_3 [eng, mA]", quantity="none")
<i>StringId</i>	DM_BC_ERR_NS (description="DM_BC_ERR_NS", quantity="none")
<i>StringId</i>	DM_GC_POWER (description="DM_GC_POWER", quantity="none")
<i>DoubleId</i>	DM_DECR_IGND_2 (description="DM_DECR_IGND_2 [eng, mA]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_SP (description="BOL_TEMP_SP [eng, K]", quantity="none")
<i>StringId</i>	DP_SPUS_HK (description="DP_SPUS_HK", quantity="none")
<i>StringId</i>	DM_CC_POWER (description="DM_CC_POWER", quantity="none")
<i>DoubleId</i>	DM_DECB_TS_2_3 (description="DM_DECB_TS_2_3 [eng, K]", quantity="none")
<i>StringId</i>	DM_CR2_ST_TE (description="DM_CR2_ST_TE", quantity="none")
<i>StringId</i>	DM_HKCO_TASK_AL (description="DM_HKCO_TASK_AL", quantity="none")
<i>LongId</i>	HD_PACKET_TYPE (description="HD_PACKET_TYPE [raw]", quantity="none")
<i>LongId</i>	SPS_MEM_CNTS (description="SPS_MEM_CNTS [raw]", quantity="none")
<i>LongId</i>	DM_DECR_SR_RB_1 (description="DM_DECR_SR_RB_1 [raw]", quantity="none")
<i>LongId</i>	DM_CHOP_PID_ACC (description="DM_CHOP_PID_ACC [raw]", quantity="none")
<i>LongId</i>	DM_DECR_SR_RB_2 (description="DM_DECR_SR_RB_2 [raw]", quantity="none")
<i>StringId</i>	DM_BSPU_TR_MODE (description="DM_BSPU_TR_MODE", quantity="none")
<i>StringId</i>	DM_FPU_GR_TS_ST (description="DM_FPU_GR_TS_ST", quantity="none")
<i>StringId</i>	DM_BC_TASK_AL (description="DM_BC_TASK_AL", quantity="none")

<i>DoubleId</i>	DM_DECB_TS_2_4 (description="DM_DECB_TS_2_4 [eng, K]", quantity="none")
<i>DoubleId</i>	DM_DECR_AC_CUR (description="DM_DECR_AC_CUR [eng, mA]", quantity="none")
<i>LongId</i>	SPL_OBSID (description="SPL_OBSID [raw]", quantity="none")
<i>StringId</i>	DM_BC_LINK (description="DM_BC_LINK", quantity="none")
<i>LongId</i>	DM_BR_ERROR (description="DM_BR_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_CR1_NDS (description="DM_CR1_NDS", quantity="none")
<i>DoubleId</i>	DM_DECB_VSCP_3 (description="DM_DECB_VSCP_3 [eng, V]", quantity="none")
<i>LongId</i>	DM_DECR_RO_CO_2 (description="DM_DECR_RO_CO_2 [raw]", quantity="none")
<i>StringId</i>	DM_SW_ALIVE (description="DM_SW_ALIVE", quantity="none")
<i>StringId</i>	DM_SEQ_RUNNING (description="DM_SEQ_RUNNING", quantity="none")
<i>StringId</i>	DM_FWPC_POS_A (description="DM_FWPC_POS_A", quantity="none")
<i>DoubleId</i>	DM_DECB_VSCP_4 (description="DM_DECB_VSCP_4 [eng, V]", quantity="none")
<i>LongId</i>	DM_DECR_RO_CO_1 (description="DM_DECR_RO_CO_1 [raw]", quantity="none")
<i>StringId</i>	DM_FWPC_POS_B (description="DM_FWPC_POS_B", quantity="none")
<i>LongId</i>	DM_CC_SPARE4 (description="DM_CC_SPARE4 [raw]", quantity="none")
<i>DoubleId</i>	LAST_16BIT_TIME (description="LAST_16BIT_TIME [eng, s]", quantity="none")
<i>StringId</i>	DM_DRR_TASK_WR (description="DM_DRR_TASK_WR", quantity="none")
<i>StringId</i>	DM_DBR_TASK_AL (description="DM_DBR_TASK_AL", quantity="none")
<i>LongId</i>	DP_GEN_TM_LOST (description="DP_GEN_TM_LOST [raw]", quantity="none")
<i>StringId</i>	DM_FWPC_POWER (description="DM_FWPC_POWER", quantity="none")
<i>DoubleId</i>	DM_DECR_BR_CM_1 (description="DM_DECR_BR_CM_1 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_BR_CM_2 (description="DM_DECR_BR_CM_2 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_IGND_1 (description="DM_DECR_IGND_1 [eng, mA]", quantity="none")
<i>StringId</i>	DM_GC_DOWN (description="DM_GC_DOWN", quantity="none")
<i>DoubleId</i>	DM_DECR_VSCP_1 (description="DM_DECR_VSCP_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_DRR_ERROR (description="DM_DRR_ERROR [raw]", quantity="none")

<i>DoubleId</i>	DM_DECB_VDDD_4 (description="DM_DECB_VDDD_4 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_VSCP_2 (description="DM_DECR_VSCP_2 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECB_VDDD_3 (description="DM_DECB_VDDD_3 [eng, V]", quantity="none")
<i>LongId</i>	DM_FWPC_SPARE4 (description="DM_FWPC_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_RA_CO_3 (description="DM_DECB_RA_CO_3 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_RA_CO_4 (description="DM_DECB_RA_CO_4 [raw]", quantity="none")
<i>LongId</i>	DM_PLL_RES_HI (description="DM_PLL_RES_HI [raw]", quantity="none")
<i>LongId</i>	DM_BR_SPARE2 (description="DM_BR_SPARE2 [raw]", quantity="none")
<i>StringId</i>	DM_SEQ_OPTIONS (description="DM_SEQ_OPTIONS", quantity="none")
<i>LongId</i>	DP_COM_SPL_PACK (description="DP_COM_SPL_PACK [raw]", quantity="none")
<i>StringId</i>	DM_DBC_LINK (description="DM_DBC_LINK", quantity="none")
<i>DoubleId</i>	DM_DECB_V0BIAS3 (description="DM_DECB_V0BIAS3 [eng, V]", quantity="none")
<i>StringId</i>	DM_CR4_ST_SEL (description="DM_CR4_ST_SEL", quantity="none")
<i>StringId</i>	DM_CR4_ST_CRPOW (description="DM_CR4_ST_CRPOW", quantity="none")
<i>DoubleId</i>	DM_DECR_VDDD_2 (description="DM_DECR_VDDD_2 [eng, V]", quantity="none")
<i>StringId</i>	DM_CR1_ST_FL (description="DM_CR1_ST_FL", quantity="none")
<i>DoubleId</i>	DM_DECB_V0BIAS4 (description="DM_DECB_V0BIAS4 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_VDDD_1 (description="DM_DECR_VDDD_1 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_V0V_2 (description="DM_DECR_V0V_2 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_V0V_1 (description="DM_DECR_V0V_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_DPUS_ERROR (description="DM_DPUS_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_HKD_TASK_WR (description="DM_HKD_TASK_WR", quantity="none")
<i>LongId</i>	DM_DECB_CTRL_PA (description="DM_DECB_CTRL_PA [raw]", quantity="none")
<i>LongId</i>	SPL_SUBVERSION (description="SPL_SUBVERSION [raw]", quantity="none")

<i>LongId</i>	DM_BOL_READ_CNT (description="DM_BOL_READ_CNT [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_FLASH_V (description="DM_DECR_FLASH_V [eng, V]", quantity="none")
<i>StringId</i>	DM_HKCO_ERR_NS (description="DM_HKCO_ERR_NS", quantity="none")
<i>LongId</i>	FIRST32BIT_TIME (description="FIRST32BIT_TIME [raw]", quantity="none")
<i>StringId</i>	DM_HKD_DIAGMODE (description="DM_HKD_DIAGMODE", quantity="none")
<i>StringId</i>	DP_1553_HANDLER (description="DP_1553_HANDLER", quantity="none")
<i>StringId</i>	DM_DRC_TASK_AL (description="DM_DRC_TASK_AL", quantity="none")
<i>LongId</i>	DM_SEQ_LOOP_ID4 (description="DM_SEQ_LOOP_ID4 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF12 (description="DM_LAST_ER_BF12 [raw]", quantity="none")
<i>StringId</i>	DM_FWPC_TASK_WR (description="DM_FWPC_TASK_WR", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF13 (description="DM_LAST_ER_BF13 [raw]", quantity="none")
<i>LongId</i>	DM_FWGRAT_HALLA (description="DM_FWGRAT_HALLA [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF14 (description="DM_LAST_ER_BF14 [raw]", quantity="none")
<i>LongId</i>	DM_FWGRAT_HALLB (description="DM_FWGRAT_HALLB [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF15 (description="DM_LAST_ER_BF15 [raw]", quantity="none")
<i>LongId</i>	DM_SEQ_LOOP_ID0 (description="DM_SEQ_LOOP_ID0 [raw]", quantity="none")
<i>LongId</i>	DM_SEQ_LOOP_ID1 (description="DM_SEQ_LOOP_ID1 [raw]", quantity="none")
<i>LongId</i>	SPL_SAMP_CORR (description="SPL_SAMP_CORR [raw]", quantity="none")
<i>LongId</i>	DM_SEQ_LOOP_ID2 (description="DM_SEQ_LOOP_ID2 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF10 (description="DM_LAST_ER_BF10 [raw]", quantity="none")
<i>StringId</i>	DM_CR4_ST_HE (description="DM_CR4_ST_HE", quantity="none")
<i>LongId</i>	DM_SEQ_LOOP_ID3 (description="DM_SEQ_LOOP_ID3 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF11 (description="DM_LAST_ER_BF11 [raw]", quantity="none")
<i>StringId</i>	DM_TS_2_ST_3 (description="DM_TS_2_ST_3", quantity="none")

<i>LongId</i>	DM_GRAT_PID_ACC (description="DM_GRAT_PID_ACC [raw]", quantity="none")
<i>StringId</i>	DM_TS_2_ST_4 (description="DM_TS_2_ST_4", quantity="none")
<i>StringId</i>	DM_CC_TASK_WR (description="DM_CC_TASK_WR", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF16 (description="DM_LAST_ER_BF16 [raw]", quantity="none")
<i>StringId</i>	DM_TS_2_ST_1 (description="DM_TS_2_ST_1", quantity="none")
<i>StringId</i>	DM_TS_2_ST_2 (description="DM_TS_2_ST_2", quantity="none")
<i>StringId</i>	DM_GC_PID (description="DM_GC_PID", quantity="none")
<i>StringId</i>	DM_CR1_ST_HE (description="DM_CR1_ST_HE", quantity="none")
<i>DoubleId</i>	DM_SPU_PS_TEMP (description="DM_SPU_PS_TEMP [eng, K]", quantity="none")
<i>LongId</i>	DP_COM_DMC (description="DP_COM_DMC [raw]", quantity="none")
<i>StringId</i>	DP_OBCP_RUN (description="DP_OBCP_RUN", quantity="none")
<i>StringId</i>	DP_IRQ3_TASK (description="DP_IRQ3_TASK", quantity="none")
<i>DoubleId</i>	DM_FPU_T2_TEMP (description="DM_FPU_T2_TEMP [eng, K]", quantity="none")
<i>DoubleId</i>	DM_DECB_VWELL_4 (description="DM_DECB_VWELL_4 [eng, V]", quantity="none")
<i>LongId</i>	SID (description="SID [raw]", quantity="none")
<i>LongId</i>	SPS_PIX (description="SPS_PIX [raw]", quantity="none")
<i>LongId</i>	DM_FWSC_SPARE4 (description="DM_FWSC_SPARE4 [raw]", quantity="none")
<i>StringId</i>	DM_TS_1_ST_4 (description="DM_TS_1_ST_4", quantity="none")
<i>StringId</i>	DM_BPE_TASK_AL (description="DM_BPE_TASK_AL", quantity="none")
<i>StringId</i>	DM_TS_1_ST_3 (description="DM_TS_1_ST_3", quantity="none")
<i>StringId</i>	DM_CR3_ST_SIM (description="DM_CR3_ST_SIM", quantity="none")
<i>StringId</i>	DM_TS_1_ST_2 (description="DM_TS_1_ST_2", quantity="none")
<i>StringId</i>	DM_FPU_CH_TS_ST (description="DM_FPU_CH_TS_ST", quantity="none")
<i>DoubleId</i>	DM_DECB_VWELL_3 (description="DM_DECB_VWELL_3 [eng, V]", quantity="none")
<i>StringId</i>	DM_TS_1_ST_1 (description="DM_TS_1_ST_1", quantity="none")
<i>StringId</i>	DM_DSIM_TIME (description="DM_DSIM_TIME", quantity="none")
<i>StringId</i>	DM_DBR_ERR_NS (description="DM_DBR_ERR_NS", quantity="none")
<i>StringId</i>	SPS_DMC_LINK (description="SPS_DMC_LINK", quantity="none")
<i>LongId</i>	DM_DET_SIM_STAT (description="DM_DET_SIM_STAT [raw]", quantity="none")

<i>LongId</i>	DP_COM_DMC_PACK (description="DP_COM_DMC_PACK [raw]", quantity="none")
<i>LongId</i>	DM_DECR_CTRL_PA (description="DM_DECR_CTRL_PA [raw]", quantity="none")
<i>StringId</i>	DM_CR4_ST_FL (description="DM_CR4_ST_FL", quantity="none")
<i>StringId</i>	DM_CR2_NDS (description="DM_CR2_NDS", quantity="none")
<i>DoubleId</i>	DM_DECR_TS_1_2 (description="DM_DECR_TS_1_2 [eng, K]", quantity="none")
<i>DoubleId</i>	DM_DECR_TS_1_1 (description="DM_DECR_TS_1_1 [eng, K]", quantity="none")
<i>LongId</i>	HD_APID (description="HD_APID [raw]", quantity="none")
<i>LongId</i>	DM_DSIM_SPARE7 (description="DM_DSIM_SPARE7 [raw]", quantity="none")
<i>StringId</i>	DP_STABLE_DEC (description="DP_STABLE_DEC", quantity="none")
<i>DoubleId</i>	DM_DECB_VSS_3 (description="DM_DECB_VSS_3 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECB_VSS_4 (description="DM_DECB_VSS_4 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_VWELL_2 (description="DM_DECR_VWELL_2 [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ERR_ID (description="DM_LAST_ERR_ID [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_VWELL_1 (description="DM_DECR_VWELL_1 [eng, V]", quantity="none")
<i>StringId</i>	DM_CR3_ST_CRPOW (description="DM_CR3_ST_CRPOW", quantity="none")
<i>LongId</i>	SPS_LLC_ERROR (description="SPS_LLC_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_RED_ENC_PAC (description="DM_RED_ENC_PAC [raw]", quantity="none")
<i>StringId</i>	DM_CS2C_DOWN (description="DM_CS2C_DOWN", quantity="none")
<i>StringId</i>	DP_SPL_LINK (description="DP_SPL_LINK", quantity="none")
<i>LongId</i>	DM_IRS_CNT (description="DM_IRS_CNT [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_TS_1_4 (description="DM_DECB_TS_1_4 [eng, K]", quantity="none")
<i>LongId</i>	DM_SW_SPARE5 (description="DM_SW_SPARE5 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_TS_1_3 (description="DM_DECB_TS_1_3 [eng, K]", quantity="none")
<i>LongId</i>	DP_COM_SPS_NACK (description="DP_COM_SPS_NACK [raw]", quantity="none")
<i>StringId</i>	DM_BR_TASK_WR (description="DM_BR_TASK_WR", quantity="none")

<i>StringId</i>	DM_DBR_SENDING (description="DM_DBR_SENDING", quantity="none")
<i>LongId</i>	DP_COM_SPUS (description="DP_COM_SPUS [raw]", quantity="none")
<i>StringId</i>	DM_CS1C_POWER (description="DM_CS1C_POWER", quantity="none")
<i>StringId</i>	DM_DPUR_TASK_WR (description="DM_DPUR_TASK_WR", quantity="none")
<i>LongId</i>	DP_COM_SPUL (description="DP_COM_SPUL [raw]", quantity="none")
<i>StringId</i>	DM_GC_SYNCHRO (description="DM_GC_SYNCHRO", quantity="none")
<i>StringId</i>	DM_SEQ_TASK_AL (description="DM_SEQ_TASK_AL", quantity="none")
<i>DoubleId</i>	BOL_TEMP_SP_SWT (description="BOL_TEMP_SP_SWT [eng, K]", quantity="none")
<i>LongId</i>	DM_SEQ_STATUS (description="DM_SEQ_STATUS [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_ISS_1 (description="DM_DECR_ISS_1 [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECR_ISS_2 (description="DM_DECR_ISS_2 [eng, mA]", quantity="none")
<i>LongId</i>	DM_FW_PHOT_CTRL (description="DM_FW_PHOT_CTRL [raw]", quantity="none")
<i>StringId</i>	DM_CC_PID (description="DM_CC_PID", quantity="none")
<i>StringId</i>	DM_GC_DEGRADE (description="DM_GC_DEGRADE", quantity="none")
<i>StringId</i>	DM_CS1C_DOWN (description="DM_CS1C_DOWN", quantity="none")
<i>StringId</i>	DP_COUNTER_SPS (description="DP_COUNTER_SPS", quantity="none")
<i>StringId</i>	DM_BR_TASK_AL (description="DM_BR_TASK_AL", quantity="none")
<i>LongId</i>	DM_GC_LL_SC (description="DM_GC_LL_SC [raw]", quantity="none")
<i>LongId</i>	DM_DPUR_SPARE4 (description="DM_DPUR_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DP_COM_REC_DPU (description="DP_COM_REC_DPU [raw]", quantity="none")
<i>StringId</i>	DM_DPUS_TASK_WR (description="DM_DPUS_TASK_WR", quantity="none")
<i>StringId</i>	DM_SEQ_IDLE (description="DM_SEQ_IDLE", quantity="none")
<i>LongId</i>	DM_FPU_T_SEN_ST (description="DM_FPU_T_SEN_ST [raw]", quantity="none")
<i>StringId</i>	DM_HKD_TASK_AL (description="DM_HKD_TASK_AL", quantity="none")
<i>LongId</i>	DM_BOL_CTRL_STA (description="DM_BOL_CTRL_STA [raw]", quantity="none")

<i>LongId</i>	DM_CR2_ST_SP1 (description="DM_CR2_ST_SP1 [raw]", quantity="none")
<i>LongId</i>	DM_CR2_ST_SP2 (description="DM_CR2_ST_SP2 [raw]", quantity="none")
<i>StringId</i>	DM_CR3_ST_POW (description="DM_CR3_ST_POW", quantity="none")
<i>StringId</i>	DM_CS2C_POWER (description="DM_CS2C_POWER", quantity="none")
<i>LongId</i>	DM_SEQ_POINTER (description="DM_SEQ_POINTER [raw]", quantity="none")
<i>LongId</i>	DM_DPU_SEN_STAT (description="DM_DPU_SEN_STAT [raw]", quantity="none")
<i>StringId</i>	DM_CR1_ST_POW (description="DM_CR1_ST_POW", quantity="none")
<i>LongId</i>	DM_CR4_ST_SP1 (description="DM_CR4_ST_SP1 [raw]", quantity="none")
<i>LongId</i>	DM_CR4_ST_SP2 (description="DM_CR4_ST_SP2 [raw]", quantity="none")
<i>LongId</i>	DM_SW_GLOBAL_ST (description="DM_SW_GLOBAL_ST [raw]", quantity="none")
<i>DoubleId</i>	DP_T (description="DP_T [eng, degC]", quantity="none")
<i>LongId</i>	DM_DECB_REC_PAC (description="DM_DECB_REC_PAC [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_6 (description="BOL_PWR_ANA_P_6 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_7 (description="BOL_PWR_ANA_P_7 [eng, V]", quantity="none")
<i>StringId</i>	DP_BURST_MODE (description="DP_BURST_MODE", quantity="none")
<i>StringId</i>	DM_FPU_S2_TS_ST (description="DM_FPU_S2_TS_ST", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_2 (description="BOL_PWR_ANA_P_2 [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF5 (description="DM_LAST_ER_BF5 [raw]", quantity="none")
<i>LongId</i>	SPS_SUBVERSION (description="SPS_SUBVERSION [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF6 (description="DM_LAST_ER_BF6 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_3 (description="BOL_PWR_ANA_P_3 [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF3 (description="DM_LAST_ER_BF3 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_4 (description="BOL_PWR_ANA_P_4 [eng, V]", quantity="none")
<i>StringId</i>	DM_CR3_ST_CUR (description="DM_CR3_ST_CUR", quantity="none")
<i>LongId</i>	SPL_PIX (description="SPL_PIX [raw]", quantity="none")

<i>LongId</i>	DM_LAST_ER_BF4 (description="DM_LAST_ER_BF4 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_5 (description="BOL_PWR_ANA_P_5 [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF9 (description="DM_LAST_ER_BF9 [raw]", quantity="none")
<i>LongId</i>	DM_BOL_REC_STAT (description="DM_BOL_REC_STAT [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF7 (description="DM_LAST_ER_BF7 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_1 (description="BOL_PWR_ANA_P_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF8 (description="DM_LAST_ER_BF8 [raw]", quantity="none")
<i>StringId</i>	DM_DSIM_BOL_SIM (description="DM_DSIM_BOL_SIM", quantity="none")
<i>LongId</i>	SPL_MAINT_RAMPS (description="SPL_MAINT_RAMPS [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_ISS_3 (description="DM_DECB_ISS_3 [eng, mA]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF1 (description="DM_LAST_ER_BF1 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_ISS_4 (description="DM_DECB_ISS_4 [eng, mA]", quantity="none")
<i>StringId</i>	DP_EV_BOL_BIAS (description="DP_EV_BOL_BIAS", quantity="none")
<i>LongId</i>	DM_HK_DIAG_STAT (description="DM_HK_DIAG_STAT [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF2 (description="DM_LAST_ER_BF2 [raw]", quantity="none")
<i>StringId</i>	DM_CC_UP (description="DM_CC_UP", quantity="none")
<i>StringId</i>	DP_EVENT_DEC (description="DP_EVENT_DEC", quantity="none")
<i>LongId</i>	DM_DPUR_ERROR (description="DM_DPUR_ERROR [raw]", quantity="none")
<i>StringId</i>	DP_SPS_LINK (description="DP_SPS_LINK", quantity="none")
<i>LongId</i>	DM_FWPC_SPARE1A (description="DM_FWPC_SPARE1A [raw]", quantity="none")
<i>LongId</i>	DM_FWPC_SPARE1B (description="DM_FWPC_SPARE1B [raw]", quantity="none")
<i>StringId</i>	DM_CR3_NDS (description="DM_CR3_NDS", quantity="none")
<i>StringId</i>	DM_GC_COMMUT (description="DM_GC_COMMUT", quantity="none")
<i>LongId</i>	DM_GRAT_CUR_POS (description="DM_GRAT_CUR_POS [raw]", quantity="none")
<i>StringId</i>	DM_RPE_ERR_NS (description="DM_RPE_ERR_NS", quantity="none")
<i>LongId</i>	DM_OBSID (description="DM_OBSID [raw]", quantity="none")

<i>StringId</i>	DM_CR4_ST_TE (description="DM_CR4_ST_TE", quantity="none")
<i>DoubleId</i>	DM_DECR_HEAT_C (description="DM_DECR_HEAT_C [eng, mA]", quantity="none")
<i>LongId</i>	DM_ISR_SPARE1 (description="DM_ISR_SPARE1 [raw]", quantity="none")
<i>StringId</i>	DM_FWPC_POSC_A (description="DM_FWPC_POSC_A", quantity="none")
<i>StringId</i>	DM_FWPC_POSC_B (description="DM_FWPC_POSC_B", quantity="none")
<i>LongId</i>	DM_ISR_SPARE2 (description="DM_ISR_SPARE2 [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_T_WE (description="DP_EV_BOL_T_WE", quantity="none")
<i>StringId</i>	DM_DRC_TASK_WR (description="DM_DRC_TASK_WR", quantity="none")
<i>DoubleId</i>	DM_DECR_FLASH_C (description="DM_DECR_FLASH_C [eng, mA]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_5 (description="BOL_PWR_DIG_5 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_6 (description="BOL_PWR_DIG_6 [eng, V]", quantity="none")
<i>StringId</i>	DM_DPUS_LINK (description="DM_DPUS_LINK", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_7 (description="BOL_PWR_DIG_7 [eng, V]", quantity="none")
<i>LongId</i>	DM_BC_SPARE4 (description="DM_BC_SPARE4 [raw]", quantity="none")
<i>StringId</i>	DM_FWPC_ERR_NS (description="DM_FWPC_ERR_NS", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_1 (description="BOL_PWR_DIG_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_2 (description="BOL_PWR_DIG_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_3 (description="BOL_PWR_DIG_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_4 (description="BOL_PWR_DIG_4 [eng, V]", quantity="none")
<i>StringId</i>	DM_DBR_SIM_TIME (description="DM_DBR_SIM_TIME", quantity="none")
<i>StringId</i>	DM_CR3_ST_TE (description="DM_CR3_ST_TE", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_RO (description="DP_EV_BOL_I_RO", quantity="none")
<i>StringId</i>	DM_CS1C_TASK_AL (description="DM_CS1C_TASK_AL", quantity="none")
<i>DoubleId</i>	DM_DECR_HEAT_V (description="DM_DECR_HEAT_V [eng, V]", quantity="none")

<i>StringId</i>	DM_SW_COPY_OBS (description="DM_SW_COPY_OBS", quantity="none")
<i>LongId</i>	SPS_SAMP_CORR (description="SPS_SAMP_CORR [raw]", quantity="none")
<i>StringId</i>	DM_SW_ERR (description="DM_SW_ERR", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU_ST (description="BOL_TEMP_FPU_ST [eng, K]", quantity="none")
<i>StringId</i>	DM_CR1_ST_RA (description="DM_CR1_ST_RA", quantity="none")
<i>StringId</i>	DM_BR_SENDING (description="DM_BR_SENDING", quantity="none")
<i>StringId</i>	DM_DSIM_R_SIMUL (description="DM_DSIM_R_SIMUL", quantity="none")
<i>DoubleId</i>	DP_VOL_15P (description="DP_VOL_15P [eng, V]", quantity="none")
<i>StringId</i>	DM_FPU_CS_TS_ST (description="DM_FPU_CS_TS_ST", quantity="none")
<i>DoubleId</i>	DM_FW_SPEC_TEMP (description="DM_FW_SPEC_TEMP [eng, K]", quantity="none")
<i>DoubleId</i>	DP_VOL_15N (description="DP_VOL_15N [eng, V]", quantity="none")
<i>StringId</i>	DM_BR_LINK (description="DM_BR_LINK", quantity="none")
<i>StringId</i>	DM_HKCO_TASK_WR (description="DM_HKCO_TASK_WR", quantity="none")
<i>LongId</i>	SPS_CI (description="SPS_CI [raw]", quantity="none")
<i>StringId</i>	DM_CR4_ST_RA (description="DM_CR4_ST_RA", quantity="none")
<i>DoubleId</i>	DM_DECR_DCDCP15 (description="DM_DECR_DCDCP15 [eng, mA]", quantity="none")
<i>LongId</i>	DM_ISR_STAT (description="DM_ISR_STAT [raw]", quantity="none")
<i>LongId</i>	HD_LENGTH (description="HD_LENGTH [raw]", quantity="none")
<i>LongId</i>	DP_COM_SPS_PACK (description="DP_COM_SPS_PACK [raw]", quantity="none")
<i>LongId</i>	DP_1_8_REJECTED (description="DP_1_8_REJECTED [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_ZB_CM_1 (description="DM_DECR_ZB_CM_1 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_ZB_CM_2 (description="DM_DECR_ZB_CM_2 [eng, V]", quantity="none")
<i>LongId</i>	DM_FWSC_SPARE1A (description="DM_FWSC_SPARE1A [raw]", quantity="none")
<i>LongId</i>	DM_CS2C_ERROR (description="DM_CS2C_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_CR1_ST_CRPOW (description="DM_CR1_ST_CRPOW", quantity="none")
<i>LongId</i>	DM_SEQ_ERROR (description="DM_SEQ_ERROR [raw]", quantity="none")

<i>StringId</i>	DP_1355_LINK (description="DP_1355_LINK", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU1 (description="BOL_TEMP_FPU1 [eng, K]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU2 (description="BOL_TEMP_FPU2 [eng, K]", quantity="none")
<i>LongId</i>	DM_DECR_RA_CO_1 (description="DM_DECR_RA_CO_1 [raw]", quantity="none")
<i>LongId</i>	SPS_PAR_MONITOR (description="SPS_PAR_MONITOR [raw]", quantity="none")
<i>LongId</i>	DM_GRAT_PID_ERR (description="DM_GRAT_PID_ERR [raw]", quantity="none")
<i>LongId</i>	DP_1_2_REJECTED (description="DP_1_2_REJECTED [raw]", quantity="none")
<i>LongId</i>	DM_DECR_RA_CO_2 (description="DM_DECR_RA_CO_2 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_VGND_2 (description="DM_DECR_VGND_2 [eng, V]", quantity="none")
<i>StringId</i>	DM_BPE_TASK_WR (description="DM_BPE_TASK_WR", quantity="none")
<i>DoubleId</i>	DM_DECB_FLASH_V (description="DM_DECB_FLASH_V [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_VGND_1 (description="DM_DECR_VGND_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_FWPC_ERROR (description="DM_FWPC_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_CR2_ST_CUR (description="DM_CR2_ST_CUR", quantity="none")
<i>DoubleId</i>	DM_GRAT_OUTPUT (description="DM_GRAT_OUTPUT [eng, mA]", quantity="none")
<i>LongId</i>	DM_GRAT_CTRL_ST (description="DM_GRAT_CTRL_ST [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_4 (description="BOL_PWR_ANA_N_4 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_5 (description="BOL_PWR_ANA_N_5 [eng, V]", quantity="none")
<i>LongId</i>	DM_SW_ERROR (description="DM_SW_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_DECB_SR_RB_3 (description="DM_DECB_SR_RB_3 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_6 (description="BOL_PWR_ANA_N_6 [eng, V]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT10 (description="DM_CUSTOM_ENT10 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_7 (description="BOL_PWR_ANA_N_7 [eng, V]", quantity="none")
<i>StringId</i>	DM_CR3_ST_RA (description="DM_CR3_ST_RA", quantity="none")

<i>LongId</i>	DM_DECB_SR_RB_4 (description="DM_DECB_SR_RB_4 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_1 (description="BOL_PWR_ANA_N_1 [eng, V]", quantity="none")
<i>StringId</i>	SPL_DMC_ERROR (description="SPL_DMC_ERROR", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_2 (description="BOL_PWR_ANA_N_2 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_SPU_SWL_TEMP (description="DM_SPU_SWL_TEMP [eng, K]", quantity="none")
<i>LongId</i>	DM_HK_DIAG_PERI (description="DM_HK_DIAG_PERI [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_3 (description="BOL_PWR_ANA_N_3 [eng, V]", quantity="none")
<i>StringId</i>	DM_CR4_NDS (description="DM_CR4_NDS", quantity="none")
<i>LongId</i>	DM_FWSC_SPARE1B (description="DM_FWSC_SPARE1B [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_FLASH_C (description="DM_DECB_FLASH_C [eng, mA]", quantity="none")
<i>StringId</i>	DM_CR1_ST_TE (description="DM_CR1_ST_TE", quantity="none")
<i>DoubleId</i>	DP_VOL_25P (description="DP_VOL_25P [eng, V]", quantity="none")
<i>DoubleId</i>	SPL_CPUWORKLOAD (description="SPL_CPUWORKLOAD [eng, %]", quantity="none")
<i>StringId</i>	DP_SPUS_LINK (description="DP_SPUS_LINK", quantity="none")
<i>LongId</i>	DM_SEQ_SPARE2 (description="DM_SEQ_SPARE2 [raw]", quantity="none")
<i>DoubleId</i>	DP_VOL_5P (description="DP_VOL_5P [eng, V]", quantity="none")
<i>LongId</i>	DM_DPU_REC_PAC (description="DM_DPU_REC_PAC [raw]", quantity="none")
<i>StringId</i>	DP_COUNTER_SPL (description="DP_COUNTER_SPL", quantity="none")
<i>LongId</i>	DM_SEQ_SPARE1 (description="DM_SEQ_SPARE1 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_DCDC_P5 (description="DM_DECB_DCDC_P5 [eng, mA]", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_HEA (description="DP_EV_BOL_I_HEA", quantity="none")
<i>StringId</i>	DM_CR2_ST_RA (description="DM_CR2_ST_RA", quantity="none")
<i>DoubleId</i>	DM_DECR_IDDA_1 (description="DM_DECR_IDDA_1 [eng, mA]", quantity="none")
<i>StringId</i>	DP_COUNTER_PHOT (description="DP_COUNTER_PHOT", quantity="none")
<i>LongId</i>	DM_CR3_ST_SP2 (description="DM_CR3_ST_SP2 [raw]", quantity="none")

<i>StringId</i>	DM_DSIM_ERR_NS (description="DM_DSIM_ERR_NS", quantity="none")
<i>StringId</i>	DM_CR4_ST_SIM (description="DM_CR4_ST_SIM", quantity="none")
<i>StringId</i>	DM_CR2_ST_POW (description="DM_CR2_ST_POW", quantity="none")
<i>LongId</i>	DM_DECR_REC_PAC (description="DM_DECR_REC_PAC [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_IDDA_3 (description="DM_DECB_IDDA_3 [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECB_DCDCP15 (description="DM_DECB_DCDCP15 [eng, mA]", quantity="none")
<i>LongId</i>	DP_SPUS_LINK_DE (description="DP_SPUS_LINK_DE [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_IDDA_4 (description="DM_DECB_IDDA_4 [eng, mA]", quantity="none")
<i>StringId</i>	DM_CC_LOOP (description="DM_CC_LOOP", quantity="none")
<i>DoubleId</i>	DM_DECR_IDDA_2 (description="DM_DECR_IDDA_2 [eng, mA]", quantity="none")
<i>LongId</i>	SPS_RCX (description="SPS_RCX [raw]", quantity="none")
<i>LongId</i>	DM_BC_ERROR (description="DM_BC_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_DSIM_TASK_AL (description="DM_DSIM_TASK_AL", quantity="none")
<i>LongId</i>	DM_DECB_RO_CO_4 (description="DM_DECB_RO_CO_4 [raw]", quantity="none")
<i>LongId</i>	DM_CR3_ST_SP1 (description="DM_CR3_ST_SP1 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_RO_CO_3 (description="DM_DECB_RO_CO_3 [raw]", quantity="none")
<i>DoubleId</i>	DM_CAL_SRC_TEMP (description="DM_CAL_SRC_TEMP [eng, K]", quantity="none")
<i>DoubleId</i>	DM_CS1_OUTPUT (description="DM_CS1_OUTPUT [eng, V]", quantity="none")
<i>StringId</i>	DM_DRR_SENDING (description="DM_DRR_SENDING", quantity="none")
<i>StringId</i>	DM_DRC_LINK (description="DM_DRC_LINK", quantity="none")
<i>StringId</i>	DP_SPUL_CMD (description="DP_SPUL_CMD", quantity="none")
<i>LongId</i>	DM_BLUE_PAC_ENC (description="DM_BLUE_PAC_ENC [raw]", quantity="none")
<i>LongId</i>	SPL_RCX (description="SPL_RCX [raw]", quantity="none")
<i>LongId</i>	DM_HK_CTRL_STAT (description="DM_HK_CTRL_STAT [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_T_FPU (description="DP_EV_BOL_T_FPU", quantity="none")
<i>LongId</i>	DM_PM_DF_IND (description="DM_PM_DF_IND [raw]", quantity="none")

<i>LongId</i>	DM_HKCO_ERROR (description="DM_HKCO_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_DECR_DCDC_T2 (description="DM_DECR_DCDC_T2 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_VGND_3 (description="DM_DECB_VGND_3 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_DCDC_T1 (description="DM_DECR_DCDC_T1 [eng, K]", quantity="none")
<i>DoubleId</i>	DM_DECB_VGND_4 (description="DM_DECB_VGND_4 [eng, V]", quantity="none")
<i>StringId</i>	DM_CS2C_PID (description="DM_CS2C_PID", quantity="none")
<i>LongId</i>	DM_DPU_REC_STAT (description="DM_DPU_REC_STAT [raw]", quantity="none")
<i>StringId</i>	DP_OBCP_MANAGER (description="DP_OBCP_MANAGER", quantity="none")
<i>LongId</i>	HD_SPARE_3 (description="HD_SPARE_3 [raw]", quantity="none")
<i>StringId</i>	DP_DEC_LINK (description="DP_DEC_LINK", quantity="none")
<i>LongId</i>	SPL_LLC_ERROR (description="SPL_LLC_ERROR [raw]", quantity="none")
<i>LongId</i>	HD_VERSION_NUMB (description="HD_VERSION_NUMB [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_DCDCN15 (description="DM_DECR_DCDCN15 [eng, mA]", quantity="none")
<i>LongId</i>	DM_DBR_SPARE2 (description="DM_DBR_SPARE2 [raw]", quantity="none")
<i>LongId</i>	DM_GRAT_TARGET (description="DM_GRAT_TARGET [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_VSS_2 (description="DM_DECR_VSS_2 [eng, V]", quantity="none")
<i>LongId</i>	DM_HKCO_SPARE5 (description="DM_HKCO_SPARE5 [raw]", quantity="none")
<i>StringId</i>	DM_CR2_ST_CS (description="DM_CR2_ST_CS", quantity="none")
<i>LongId</i>	HD_SPARE_1 (description="HD_SPARE_1 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_CL_RO_4 (description="DM_DECB_CL_RO_4 [raw]", quantity="none")
<i>LongId</i>	HD_SPARE_2 (description="HD_SPARE_2 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_CL_RO_3 (description="DM_DECB_CL_RO_3 [raw]", quantity="none")
<i>LongId</i>	SPS_VID (description="SPS_VID [raw]", quantity="none")
<i>StringId</i>	DM_FWSC_TASK_WR (description="DM_FWSC_TASK_WR", quantity="none")
<i>DoubleId</i>	DM_DECR_VSS_1 (description="DM_DECR_VSS_1 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_IDDD_2 (description="DM_DECR_IDDD_2 [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECR_IDDD_1 (description="DM_DECR_IDDD_1 [eng, mA]", quantity="none")

<i>DoubleId</i>	DM_DECB_IDDD_3 (description="DM_DECB_IDDD_3 [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECB_REF_0V4 (description="DM_DECB_REF_0V4 [eng, V]", quantity="none")
<i>LongId</i>	DM_OBT_COUNT (description="DM_OBT_COUNT [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_REF_0V3 (description="DM_DECB_REF_0V3 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECB_IDDD_4 (description="DM_DECB_IDDD_4 [eng, mA]", quantity="none")
<i>StringId</i>	DM_FPU_FWP_TS_S (description="DM_FPU_FWP_TS_S", quantity="none")
<i>StringId</i>	DP_SPUS_CMD (description="DP_SPUS_CMD", quantity="none")
<i>StringId</i>	DM_GC_LL_LOCKED (description="DM_GC_LL_LOCKED", quantity="none")
<i>LongId</i>	DM_DSIM_SPARE1A (description="DM_DSIM_SPARE1A [raw]", quantity="none")
<i>LongId</i>	DM_CS2_CTRL_STA (description="DM_CS2_CTRL_STA [raw]", quantity="none")
<i>DoubleId</i>	DM_DSP_TEMP (description="DM_DSP_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_BR_SIM_TIME (description="DM_BR_SIM_TIME", quantity="none")
<i>StringId</i>	DM_GC_LL_MOVING (description="DM_GC_LL_MOVING", quantity="none")
<i>LongId</i>	DM_DSIM_SPARE1B (description="DM_DSIM_SPARE1B [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_DCDCP5 (description="DM_DECR_DCDCP5 [eng, mA]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_4 (description="BOL_TEMP_R_4 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_5 (description="BOL_TEMP_R_5 [eng, degC]", quantity="none")
<i>LongId</i>	DM_MIM_ST (description="DM_MIM_ST [raw]", quantity="none")
<i>LongId</i>	DM_DSIM_ERROR (description="DM_DSIM_ERROR [raw]", quantity="none")
<i>StringId</i>	SPS_DMC_ERROR (description="SPS_DMC_ERROR", quantity="none")
<i>LongId</i>	DM_GC_ERROR (description="DM_GC_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_CC_ERROR (description="DM_CC_ERROR [raw]", quantity="none")
<i>StringId</i>	DP_SPUL_LINK (description="DP_SPUL_LINK", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_1 (description="BOL_TEMP_R_1 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_2 (description="BOL_TEMP_R_2 [eng, degC]", quantity="none")

<i>DoubleId</i>	BOL_TEMP_R_3 (description="BOL_TEMP_R_3 [eng, degC]", quantity="none")
<i>StringId</i>	DM_CS2C_UP (description="DM_CS2C_UP", quantity="none")
<i>StringId</i>	DM_CR4_ST_CUR (description="DM_CR4_ST_CUR", quantity="none")
<i>StringId</i>	DM_DSIM_TASK_WR (description="DM_DSIM_TASK_WR", quantity="none")
<i>StringId</i>	DM_DPUR_TASK_AL (description="DM_DPUR_TASK_AL", quantity="none")
<i>LongId</i>	SPS_REAL (description="SPS_REAL [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_B_3 (description="BOL_TEMP_B_3 [eng, degC]", quantity="none")
<i>LongId</i>	DM_CHOP_SETPOIN (description="DM_CHOP_SETPOIN [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_B_2 (description="BOL_TEMP_B_2 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_B_1 (description="BOL_TEMP_B_1 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_DAQ (description="BOL_TEMP_DAQ [eng, degC]", quantity="none")
<i>StringId</i>	DP_TEST_MODE (description="DP_TEST_MODE", quantity="none")
<i>LongId</i>	DM_DECR_CL_RO_1 (description="DM_DECR_CL_RO_1 [raw]", quantity="none")
<i>LongId</i>	DM_CHOP_CUR_POS (description="DM_CHOP_CUR_POS [raw]", quantity="none")
<i>LongId</i>	DM_DECR_CL_RO_2 (description="DM_DECR_CL_RO_2 [raw]", quantity="none")
<i>LongId</i>	DM_CS2C_SPARE1B (description="DM_CS2C_SPARE1B [raw]", quantity="none")
<i>StringId</i>	DM_RPE_TASK_AL (description="DM_RPE_TASK_AL", quantity="none")
<i>DoubleId</i>	DM_FW_PHOT_TEMP (description="DM_FW_PHOT_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DP_BLUE_SCIENCE (description="DP_BLUE_SCIENCE", quantity="none")
<i>StringId</i>	DP_UNIT (description="DP_UNIT", quantity="none")
<i>StringId</i>	DP_DMC_CMD (description="DP_DMC_CMD", quantity="none")
<i>LongId</i>	DM_DECB_DCDC_T4 (description="DM_DECB_DCDC_T4 [raw]", quantity="none")
<i>StringId</i>	DM_CC_COMMUT (description="DM_CC_COMMUT", quantity="none")
<i>LongId</i>	DM_TIME_2 (description="DM_TIME_2 [raw]", quantity="none")
<i>LongId</i>	DM_TIME_1 (description="DM_TIME_1 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_ZB_CM_4 (description="DM_DECB_ZB_CM_4 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECB_ZB_CM_3 (description="DM_DECB_ZB_CM_3 [eng, V]", quantity="none")

<i>DoubleId</i>	DM_DECB_HEAT_V (description="DM_DECB_HEAT_V [eng, V]", quantity="none")
<i>LongId</i>	DM_CS1C_SPARE1 (description="DM_CS1C_SPARE1 [raw]", quantity="none")
<i>LongId</i>	DP_SPUS_LINK_PE (description="DP_SPUS_LINK_PE [raw]", quantity="none")
<i>LongId</i>	DM_CS1C_ERROR (description="DM_CS1C_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_CS1C_SPARE4 (description="DM_CS1C_SPARE4 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_DCDC_T3 (description="DM_DECB_DCDC_T3 [eng, K]", quantity="none")
<i>LongId</i>	DM_PM_SF_IND (description="DM_PM_SF_IND [raw]", quantity="none")
<i>LongId</i>	DM_BPE_ERROR (description="DM_BPE_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_GC_ERR_NS (description="DM_GC_ERR_NS", quantity="none")
<i>StringId</i>	DM_CS2C_TASK_WR (description="DM_CS2C_TASK_WR", quantity="none")
<i>StringId</i>	DM_CR4_ST_POW (description="DM_CR4_ST_POW", quantity="none")
<i>DoubleId</i>	BOL_TEMP_EV (description="BOL_TEMP_EV [eng, K]", quantity="none")
<i>DoubleId</i>	DM_DECB_DCDCN15 (description="DM_DECB_DCDCN15 [eng, mA]", quantity="none")
<i>StringId</i>	DM_CR2_ST_SIM (description="DM_CR2_ST_SIM", quantity="none")
<i>DoubleId</i>	DM_DECR_VCAN2_2 (description="DM_DECR_VCAN2_2 [eng, V]", quantity="none")
<i>StringId</i>	DM_DPUS_ERR_NS (description="DM_DPUS_ERR_NS", quantity="none")
<i>DoubleId</i>	DM_DECR_VCAN2_1 (description="DM_DECR_VCAN2_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_CR1_ST_SP2 (description="DM_CR1_ST_SP2 [raw]", quantity="none")
<i>StringId</i>	DM_FWPH_CUR_POS (description="DM_FWPH_CUR_POS", quantity="none")
<i>LongId</i>	DM_CR1_ST_SP1 (description="DM_CR1_ST_SP1 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_V0V_4 (description="DM_DECB_V0V_4 [eng, V]", quantity="none")
<i>StringId</i>	DP_STABLE_SPS (description="DP_STABLE_SPS", quantity="none")
<i>StringId</i>	DM_CS2C_SYNCHRO (description="DM_CS2C_SYNCHRO", quantity="none")
<i>StringId</i>	DM_CR2_ST_FL (description="DM_CR2_ST_FL", quantity="none")

<i>StringId</i>	DM_FWSC_MOVING (description="DM_FWSC_MOVING", quantity="none")
<i>DoubleId</i>	DM_DECB_HEAT_C (description="DM_DECB_HEAT_C [eng, mA]", quantity="none")
<i>LongId</i>	DM_CHOP_MAX_DIT (description="DM_CHOP_MAX_DIT [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_V0V_3 (description="DM_DECB_V0V_3 [eng, V]", quantity="none")
<i>StringId</i>	DM_ISR_SYNC_RES (description="DM_ISR_SYNC_RES", quantity="none")
<i>LongId</i>	DM_DECB_CR_ST_3 (description="DM_DECB_CR_ST_3 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_CR_ST_4 (description="DM_DECB_CR_ST_4 [raw]", quantity="none")
<i>LongId</i>	SPL_PAR_MONITOR (description="SPL_PAR_MONITOR [raw]", quantity="none")
<i>LongId</i>	DM_RPE_ERROR (description="DM_RPE_ERROR [raw]", quantity="none")
<i>DoubleId</i>	DM_PSC_V2 (description="DM_PSC_V2 [eng, mA]", quantity="none")
<i>StringId</i>	DM_GC_UP (description="DM_GC_UP", quantity="none")
<i>DoubleId</i>	DM_PSC_V1 (description="DM_PSC_V1 [eng, A]", quantity="none")
<i>DoubleId</i>	DM_PSC_V4 (description="DM_PSC_V4 [eng, A]", quantity="none")
<i>StringId</i>	DP_EEPROM_PROT (description="DP_EEPROM_PROT", quantity="none")
<i>DoubleId</i>	DM_PSC_V3 (description="DM_PSC_V3 [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECB_VCAN2_3 (description="DM_DECB_VCAN2_3 [eng, V]", quantity="none")
<i>StringId</i>	DM_HKD_ERR_NS (description="DM_HKD_ERR_NS", quantity="none")
<i>StringId</i>	DM_FWPC_SEARCHB (description="DM_FWPC_SEARCHB", quantity="none")
<i>DoubleId</i>	DM_DECB_VCAN2_4 (description="DM_DECB_VCAN2_4 [eng, V]", quantity="none")
<i>StringId</i>	DM_FWPC_SEARCHA (description="DM_FWPC_SEARCHA", quantity="none")
<i>DoubleId</i>	DM_REF_VOLT_0V (description="DM_REF_VOLT_0V [eng, V]", quantity="none")
<i>StringId</i>	DM_FPU_S1_TS_ST (description="DM_FPU_S1_TS_ST", quantity="none")
<i>DoubleId</i>	DM_CPU_LOAD (description="DM_CPU_LOAD [eng, %]", quantity="none")
<i>LongId</i>	DM_BBID (description="DM_BBID [raw]", quantity="none")
<i>StringId</i>	DP_STABLE_SPL (description="DP_STABLE_SPL", quantity="none")

<i>StringId</i>	DM_DPUR_ERR_NS (description="DM_DPUR_ERR_NS", quantity="none")
<i>StringId</i>	DM_FPU_FWS_TS_S (description="DM_FPU_FWS_TS_S", quantity="none")
<i>StringId</i>	DM_GC_HOM_COMP (description="DM_GC_HOM_COMP", quantity="none")
<i>LongId</i>	DM_SEQ_LABEL (description="DM_SEQ_LABEL [raw]", quantity="none")
<i>DoubleId</i>	DM_FPU_T1_TEMP (description="DM_FPU_T1_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_CR1_ST_CUR (description="DM_CR1_ST_CUR", quantity="none")
<i>LongId</i>	SPL_VID (description="SPL_VID [raw]", quantity="none")
<i>LongId</i>	DM_BOL_CTRL_PAC (description="DM_BOL_CTRL_PAC [raw]", quantity="none")
<i>LongId</i>	DM_BLUE_ENC_PAC (description="DM_BLUE_ENC_PAC [raw]", quantity="none")
<i>LongId</i>	DP_SPUL_LINK_DE (description="DP_SPUL_LINK_DE [raw]", quantity="none")
<i>DoubleId</i>	DM_SPU_VP_CUR (description="DM_SPU_VP_CUR [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECR_REF_0V1 (description="DM_DECR_REF_0V1 [eng, V]", quantity="none")
<i>StringId</i>	DM_DSIM_B_SIMUL (description="DM_DSIM_B_SIMUL", quantity="none")
<i>DoubleId</i>	DM_DECR_REF_0V2 (description="DM_DECR_REF_0V2 [eng, V]", quantity="none")
<i>LongId</i>	DM_DRC_SPARE3 (description="DM_DRC_SPARE3 [raw]", quantity="none")
<i>LongId</i>	HD_SEG_FLAG (description="HD_SEG_FLAG [raw]", quantity="none")
<i>StringId</i>	DM_FWPC_MOVING (description="DM_FWPC_MOVING", quantity="none")
<i>StringId</i>	DM_CR2_ST_HE (description="DM_CR2_ST_HE", quantity="none")
<i>LongId</i>	DM_BOL_STATUS (description="DM_BOL_STATUS [raw]", quantity="none")
<i>StringId</i>	DM_CS1C_TASK_WR (description="DM_CS1C_TASK_WR", quantity="none")
<i>StringId</i>	DM_CS1C_SYNCHRO (description="DM_CS1C_SYNCHRO", quantity="none")
<i>LongId</i>	DM_B_SPEC_READ (description="DM_B_SPEC_READ [raw]", quantity="none")
<i>StringId</i>	DP_EV_DEC_SPC (description="DP_EV_DEC_SPC", quantity="none")
<i>DoubleId</i>	DM_SPU_VCC_VOL (description="DM_SPU_VCC_VOL [eng, V]", quantity="none")

<i>DoubleId</i>	DM_CHOPPER_TEMP (description="DM_CHOPPER_TEMP [eng, K]", quantity="none")
<i>StringId</i>	SPL_DMC_LINK (description="SPL_DMC_LINK", quantity="none")
<i>LongId</i>	DM_BPE_SPARE4 (description="DM_BPE_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DP_DEC_LINK_PE (description="DP_DEC_LINK_PE [raw]", quantity="none")
<i>LongId</i>	DM_DECB_RO_RA_4 (description="DM_DECB_RO_RA_4 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_RO_RA_3 (description="DM_DECB_RO_RA_3 [raw]", quantity="none")
<i>LongId</i>	DP_TC_LOST (description="DP_TC_LOST [raw]", quantity="none")
<i>StringId</i>	DP_RED_SCIENCE (description="DP_RED_SCIENCE", quantity="none")
<i>DoubleId</i>	SPS_CPUWORKLOAD (description="SPS_CPUWORKLOAD [eng, %]", quantity="none")
<i>StringId</i>	DM_DBC_TASK_WR (description="DM_DBC_TASK_WR", quantity="none")
<i>StringId</i>	DM_GC_TASK_WR (description="DM_GC_TASK_WR", quantity="none")
<i>LongId</i>	HD_SRC_SEQ_CTN (description="HD_SRC_SEQ_CTN [raw]", quantity="none")
<i>StringId</i>	DM_CS2C_LOOP (description="DM_CS2C_LOOP", quantity="none")
<i>StringId</i>	DM_CR3_ST_HE (description="DM_CR3_ST_HE", quantity="none")
<i>StringId</i>	DM_CS1C_UP (description="DM_CS1C_UP", quantity="none")
<i>StringId</i>	DM_CS1C_LOOP (description="DM_CS1C_LOOP", quantity="none")
<i>StringId</i>	DM_RPE_LINK (description="DM_RPE_LINK", quantity="none")
<i>LongId</i>	DM_DBC_SPARE3 (description="DM_DBC_SPARE3 [raw]", quantity="none")
<i>DoubleId</i>	DM_CS2_OUTPUT (description="DM_CS2_OUTPUT [eng, V]", quantity="none")
<i>LongId</i>	DM_RPE_SPARE4 (description="DM_RPE_SPARE4 [raw]", quantity="none")
<i>StringId</i>	DM_RPE_TASK_WR (description="DM_RPE_TASK_WR", quantity="none")
<i>StringId</i>	DP_WHICH_OBCP (description="DP_WHICH_OBCP", quantity="none")
<i>StringId</i>	DM_CS1C_PID (description="DM_CS1C_PID", quantity="none")
<i>StringId</i>	DP_1553CHANNEL (description="DP_1553CHANNEL", quantity="none")
<i>LongId</i>	DM_CC_SPARE1B (description="DM_CC_SPARE1B [raw]", quantity="none")
<i>LongId</i>	DM_CC_SPARE1A (description="DM_CC_SPARE1A [raw]", quantity="none")

<i>LongId</i>	DM_DECB_CTRL_ST (description="DM_DECB_CTRL_ST [raw]", quantity="none")
<i>StringId</i>	DM_DBC_POWER (description="DM_DBC_POWER", quantity="none")
<i>LongId</i>	DP_COM_DMC_NACK (description="DP_COM_DMC_NACK [raw]", quantity="none")
<i>StringId</i>	DM_DRC_POWER (description="DM_DRC_POWER", quantity="none")
<i>LongId</i>	DP_SW_SUBVERS_ID (description="DP_SW_SUBVERS_ID [raw]", quantity="none")
<i>StringId</i>	DM_BPE_LINK (description="DM_BPE_LINK", quantity="none")
<i>StringId</i>	DM_FWSC_POWER (description="DM_FWSC_POWER", quantity="none")
<i>StringId</i>	DM_DBC_TASK_AL (description="DM_DBC_TASK_AL", quantity="none")
<i>StringId</i>	DM_GC_LL_UNLOCK (description="DM_GC_LL_UNLOCK", quantity="none")
<i>StringId</i>	DM_CR3_ST_FL (description="DM_CR3_ST_FL", quantity="none")
<i>LongId</i>	DM_R_SPEC_READ (description="DM_R_SPEC_READ [raw]", quantity="none")
<i>LongId</i>	DM_DM_SF_IND (description="DM_DM_SF_IND [raw]", quantity="none")
<i>LongId</i>	DM_RED_PAC_ENC (description="DM_RED_PAC_ENC [raw]", quantity="none")
<i>LongId</i>	DM_CS2C_SPARE4 (description="DM_CS2C_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DM_CS2C_SPARE1 (description="DM_CS2C_SPARE1 [raw]", quantity="none")
<i>LongId</i>	DM_CS1C_SPARE1B (description="DM_CS1C_SPARE1B [raw]", quantity="none")
<i>LongId</i>	DM_DECB_REC_STA (description="DM_DECB_REC_STA [raw]", quantity="none")
<i>StringId</i>	DM_DRC_ERR_NS (description="DM_DRC_ERR_NS", quantity="none")
<i>DoubleId</i>	DM_REF_VOLT_5V (description="DM_REF_VOLT_5V [eng, V]", quantity="none")
<i>StringId</i>	DM_CR3_ST_SEL (description="DM_CR3_ST_SEL", quantity="none")
<i>StringId</i>	DP_CONTROLLER (description="DP_CONTROLLER", quantity="none")
<i>LongId</i>	DM_CHOP_CTRL_ST (description="DM_CHOP_CTRL_ST [raw]", quantity="none")
<i>StringId</i>	DM_CR1_ST_SEL (description="DM_CR1_ST_SEL", quantity="none")
<i>LongId</i>	DP_COM_SPL_NACK (description="DP_COM_SPL_NACK [raw]", quantity="none")
<i>LongId</i>	SPL_CI (description="SPL_CI [raw]", quantity="none")

<i>StringId</i>	DM_RSPU_TR_MODE (description="DM_RSPU_TR_MODE", quantity="none")
<i>LongId</i>	HD_SOURCE_TYPE (description="HD_SOURCE_TYPE [raw]", quantity="none")
<i>LongId</i>	DM_HKD_ERROR (description="DM_HKD_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_SEQ_WAIT_IND (description="DM_SEQ_WAIT_IND [raw]", quantity="none")
<i>StringId</i>	DM_BR_ERR_NS (description="DM_BR_ERR_NS", quantity="none")
<i>DoubleId</i>	BOL_TEMP_PSU_2 (description="BOL_TEMP_PSU_2 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_PSU_1 (description="BOL_TEMP_PSU_1 [eng, degC]", quantity="none")
<i>DoubleId</i>	DM_CS1_RES_VAL (description="DM_CS1_RES_VAL [eng, Ohm]", quantity="none")
<i>LongId</i>	DM_FWSC_ERROR (description="DM_FWSC_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_CS2C_COMMUT (description="DM_CS2C_COMMUT", quantity="none")
<i>LongId</i>	DP_SPUL_LINK_PE (description="DP_SPUL_LINK_PE [raw]", quantity="none")
<i>LongId</i>	DM_DPU_SEND_PAC (description="DM_DPU_SEND_PAC [raw]", quantity="none")
<i>StringId</i>	DP_DMC_LINK (description="DP_DMC_LINK", quantity="none")
<i>LongId</i>	DM_VID (description="DM_VID [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_V_PWR (description="DP_EV_BOL_V_PWR", quantity="none")
<i>LongId</i>	SPL_REAL (description="SPL_REAL [raw]", quantity="none")
<i>LongId</i>	DM_GRAT_SETPOIN (description="DM_GRAT_SETPOIN [raw]", quantity="none")
<i>LongId</i>	DM_DECR_TS_ST_1 (description="DM_DECR_TS_ST_1 [raw]", quantity="none")
<i>LongId</i>	DM_DECR_TS_ST_2 (description="DM_DECR_TS_ST_2 [raw]", quantity="none")
<i>StringId</i>	DM_CS1C_ERR_NS (description="DM_CS1C_ERR_NS", quantity="none")
<i>StringId</i>	DM_GC_HOM_PROG (description="DM_GC_HOM_PROG", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_SP2 (description="DP_EV_BOL_I_SP2", quantity="none")
<i>LongId</i>	DM_CHOP_PID_ERR (description="DM_CHOP_PID_ERR [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_SP1 (description="DP_EV_BOL_I_SP1", quantity="none")
<i>StringId</i>	DP_COUNTER_DEC (description="DP_COUNTER_DEC", quantity="none")
<i>LongId</i>	DP_STATUS (description="DP_STATUS [raw]", quantity="none")

<i>LongId</i>	SPL_INTEG_RAMPS (description="SPL_INTEG_RAMPS [raw]", quantity="none")
<i>DoubleId</i>	DM_CS1_TARGET (description="DM_CS1_TARGET [eng, Ohm]", quantity="none")
<i>LongId</i>	DP_COM_REJ_DPU (description="DP_COM_REJ_DPU [raw]", quantity="none")
<i>LongId</i>	DM_DECR_RO_RA_1 (description="DM_DECR_RO_RA_1 [raw]", quantity="none")
<i>LongId</i>	DM_DECR_RO_RA_2 (description="DM_DECR_RO_RA_2 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_VCAN1_4 (description="DM_DECB_VCAN1_4 [eng, V]", quantity="none")
<i>LongId</i>	DM_DM_DF_IND (description="DM_DM_DF_IND [raw]", quantity="none")
<i>StringId</i>	DP_HK_MONITOR (description="DP_HK_MONITOR", quantity="none")
<i>DoubleId</i>	DM_DECB_VCAN1_3 (description="DM_DECB_VCAN1_3 [eng, V]", quantity="none")
<i>StringId</i>	DM_CC_ERR_NS (description="DM_CC_ERR_NS", quantity="none")
<i>StringId</i>	DM_CR4_ST_CS (description="DM_CR4_ST_CS", quantity="none")
<i>LongId</i>	SPS_INTEG_RAMPS (description="SPS_INTEG_RAMPS [raw]", quantity="none")
<i>LongId</i>	SPS_MAINT_RAMPS (description="SPS_MAINT_RAMPS [raw]", quantity="none")
<i>LongId</i>	DM_DECR_REC_STA (description="DM_DECR_REC_STA [raw]", quantity="none")
<i>StringId</i>	DM_DBC_ERR_NS (description="DM_DBC_ERR_NS", quantity="none")
<i>DoubleId</i>	DM_SPU_PSU_P15V (description="DM_SPU_PSU_P15V [eng, V]", quantity="none")
<i>LongId</i>	DM_CC_SPARE1C (description="DM_CC_SPARE1C [raw]", quantity="none")
<i>DoubleId</i>	DM_SPU_LWL_TEMP (description="DM_SPU_LWL_TEMP [eng, K]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_5 (description="DM_CUSTOM_ENT_5 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_4 (description="DM_CUSTOM_ENT_4 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_7 (description="DM_CUSTOM_ENT_7 [raw]", quantity="none")
<i>LongId</i>	DP_DEC_LINK_DE (description="DP_DEC_LINK_DE [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_6 (description="DM_CUSTOM_ENT_6 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_9 (description="DM_CUSTOM_ENT_9 [raw]", quantity="none")

<i>LongId</i>	DM_CUSTOM_ENT_8 (description="DM_CUSTOM_ENT_8 [raw]", quantity="none")
<i>StringId</i>	DP_HK_CHK (description="DP_HK_CHK", quantity="none")
<i>LongId</i>	DM_DECR_CTRL_ST (description="DM_DECR_CTRL_ST [raw]", quantity="none")
<i>LongId</i>	HD_DATA_FLAG (description="HD_DATA_FLAG [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_1 (description="DM_CUSTOM_ENT_1 [raw]", quantity="none")
<i>StringId</i>	DM_FWSC_SEARCHB (description="DM_FWSC_SEARCHB", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_3 (description="DM_CUSTOM_ENT_3 [raw]", quantity="none")
<i>StringId</i>	DM_FWSC_SEARCHA (description="DM_FWSC_SEARCHA", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_2 (description="DM_CUSTOM_ENT_2 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_TS_ST_4 (description="DM_DECB_TS_ST_4 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_TS_ST_3 (description="DM_DECB_TS_ST_3 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_VBI_R_2 (description="DM_DECR_VBI_R_2 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_VBI_R_1 (description="DM_DECR_VBI_R_1 [eng, V]", quantity="none")
<i>StringId</i>	DM_CR2_ST_CRPOW (description="DM_CR2_ST_CRPOW", quantity="none")
<i>StringId</i>	DM_CS2C_ERR_NS (description="DM_CS2C_ERR_NS", quantity="none")
<i>StringId</i>	DM_CR3_ST_CS (description="DM_CR3_ST_CS", quantity="none")
<i>LongId</i>	DM_CHOP_TARGET (description="DM_CHOP_TARGET [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_V0BIAS1 (description="DM_DECR_V0BIAS1 [eng, V]", quantity="none")
<i>StringId</i>	DM_SEQ_TASK_WR (description="DM_SEQ_TASK_WR", quantity="none")
<i>DoubleId</i>	DM_DECR_V0BIAS2 (description="DM_DECR_V0BIAS2 [eng, V]", quantity="none")
<i>StringId</i>	SPS_SATUR_FLAG (description="SPS_SATUR_FLAG", quantity="none")
<i>StringId</i>	DM_FWSP_CUR_POS (description="DM_FWSP_CUR_POS", quantity="none")
<i>StringId</i>	DP_EVENT_SPU (description="DP_EVENT_SPU", quantity="none")
<i>StringId</i>	DM_DPUS_TASK_AL (description="DM_DPUS_TASK_AL", quantity="none")

<i>LongId</i>	DM_CS1_CTRL_STA (description="DM_CS1_CTRL_STA [raw]", quantity="none")
<i>StringId</i>	DM_DPUR_LINK (description="DM_DPUR_LINK", quantity="none")
<i>DoubleId</i>	DM_CS2_RES_VAL (description="DM_CS2_RES_VAL [eng, Ohm]", quantity="none")
<i>StringId</i>	DM_DRR_TASK_AL (description="DM_DRR_TASK_AL", quantity="none")
<i>StringId</i>	DM_GC_LS (description="DM_GC_LS", quantity="none")
<i>StringId</i>	DM_CS2C_TASK_AL (description="DM_CS2C_TASK_AL", quantity="none")
<i>DoubleId</i>	DP_WORK_LOAD (description="DP_WORK_LOAD [eng, %]", quantity="none")
<i>LongId</i>	DP_HK_LOST (description="DP_HK_LOST [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_VDDA_4 (description="DM_DECB_VDDA_4 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_GRATING_TEMP (description="DM_GRATING_TEMP [eng, K]", quantity="none")
<i>DoubleId</i>	DM_DECB_VDDA_3 (description="DM_DECB_VDDA_3 [eng, V]", quantity="none")
<i>LongId</i>	DM_DRR_SPARE2 (description="DM_DRR_SPARE2 [raw]", quantity="none")
<i>LongId</i>	DM_DRC_ERROR (description="DM_DRC_ERROR [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_VDDA_1 (description="DM_DECR_VDDA_1 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_VDDA_2 (description="DM_DECR_VDDA_2 [eng, V]", quantity="none")
<i>StringId</i>	DM_FWSC_POSC_B (description="DM_FWSC_POSC_B", quantity="none")
<i>StringId</i>	DM_FWSC_POSC_A (description="DM_FWSC_POSC_A", quantity="none")
<i>DoubleId</i>	DM_DECR_VCAN1_2 (description="DM_DECR_VCAN1_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_EV_SWT (description="BOL_TEMP_EV_SWT [eng, K]", quantity="none")
<i>DoubleId</i>	DM_DECR_VCAN1_1 (description="DM_DECR_VCAN1_1 [eng, V]", quantity="none")
<i>LongId</i>	HD_PCKT_SUBTYPE (description="HD_PCKT_SUBTYPE [raw]", quantity="none")
<i>StringId</i>	DM_CR1_ST_SIM (description="DM_CR1_ST_SIM", quantity="none")
<i>DoubleId</i>	DM_DECB_AC_CUR (description="DM_DECB_AC_CUR [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECB_VBI_R_4 (description="DM_DECB_VBI_R_4 [eng, V]", quantity="none")

<i>StringId</i>	SPL_SATUR_FLAG (description="SPL_SATUR_FLAG", quantity="none")
<i>DoubleId</i>	DM_DECB_VBI_R_3 (description="DM_DECB_VBI_R_3 [eng, V]", quantity="none")
<i>LongId</i>	DM_DECR_CR_ST_2 (description="DM_DECR_CR_ST_2 [raw]", quantity="none")
<i>LongId</i>	DM_DBC_ERROR (description="DM_DBC_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_DECR_CR_ST_1 (description="DM_DECR_CR_ST_1 [raw]", quantity="none")
<i>StringId</i>	DP_AF_24_SPARE (description="DP_AF_24_SPARE", quantity="none")
<i>DoubleId</i>	DM_DECR_VDDR_1 (description="DM_DECR_VDDR_1 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_VDDR_2 (description="DM_DECR_VDDR_2 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DCDC_TEMP (description="DM_DCDC_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DP_1355_HANDLER (description="DP_1355_HANDLER", quantity="none")
<i>StringId</i>	DM_DRR_SIM_TIME (description="DM_DRR_SIM_TIME", quantity="none")
<i>StringId</i>	DM_CR1_ST_CS (description="DM_CR1_ST_CS", quantity="none")
<i>LongId</i>	HD_PUS_VERSION (description="HD_PUS_VERSION [raw]", quantity="none")
<i>LongId</i>	DP_SPARE (description="DP_SPARE [raw]", quantity="none")
<i>StringId</i>	DM_FWSC_POS_B (description="DM_FWSC_POS_B", quantity="none")
<i>LongId</i>	DP_SW_VERS_ID (description="DP_SW_VERS_ID [raw]", quantity="none")
<i>StringId</i>	DM_FWSC_ERR_NS (description="DM_FWSC_ERR_NS", quantity="none")
<i>StringId</i>	DM_FWSC_POS_A (description="DM_FWSC_POS_A", quantity="none")
<i>StringId</i>	DP_SPUL_HK (description="DP_SPUL_HK", quantity="none")
<i>LongId</i>	DM_BOL_REC_PAC (description="DM_BOL_REC_PAC [raw]", quantity="none")
<i>StringId</i>	DP_COUNTER_SPEC (description="DP_COUNTER_SPEC", quantity="none")
<i>LongId</i>	DP_EVENT_LOST (description="DP_EVENT_LOST [raw]", quantity="none")
<i>LongId</i>	SPS_OBSID (description="SPS_OBSID [raw]", quantity="none")
<i>DoubleId</i>	DM_CS2_TARGET (description="DM_CS2_TARGET [eng, Ohm]", quantity="none")
<i>StringId</i>	DM_DRR_LINK (description="DM_DRR_LINK", quantity="none")
<i>StringId</i>	DM_DBR_TASK_WR (description="DM_DBR_TASK_WR", quantity="none")

<i>StringId</i>	DP_EVENT_DPU (description="DP_EVENT_DPU", quantity="none")
<i>StringId</i>	DM_BC_TASK_WR (description="DM_BC_TASK_WR", quantity="none")
<i>StringId</i>	DP_INIT (description="DP_INIT", quantity="none")
<i>LongId</i>	DM_PLL_RES_LO (description="DM_PLL_RES_LO [raw]", quantity="none")
<i>LongId</i>	SPL_MEM_CNTS (description="SPL_MEM_CNTS [raw]", quantity="none")
<i>LongId</i>	DP_AF_STATUS (description="DP_AF_STATUS [raw]", quantity="none")
<i>StringId</i>	DM_CC_DOWN (description="DM_CC_DOWN", quantity="none")
<i>DoubleId</i>	DM_CHOP_OUTPUT (description="DM_CHOP_OUTPUT [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECB_VDDR_4 (description="DM_DECB_VDDR_4 [eng, V]", quantity="none")
<i>StringId</i>	DP_TM_RATE (description="DP_TM_RATE", quantity="none")
<i>DoubleId</i>	DM_DECB_VDDR_3 (description="DM_DECB_VDDR_3 [eng, V]", quantity="none")
<i>StringId</i>	DM_CR2_ST_SEL (description="DM_CR2_ST_SEL", quantity="none")
<i>StringId</i>	DP_DMC_HK (description="DP_DMC_HK", quantity="none")

3.6.19. PACS Product Level 0 - Raw Data Spectrometer blue

<i>product (type="HPSRAWBS", description="Raw Data Spectrometer blue")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
StringParameter	camName (description="Name of the Camera")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
BooleanParameter	Initialized (description="null")
LongParameter	Obsid (description="null")
LongParameter	apid (description="Application Programme Identifier")

DoubleParameter	subType (description="HSPOT: Product subtype: 1:BolRed 2:BolBlue 3:SpecRed 4:SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product Level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")

DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{\text{rest}} - \lambda) / \lambda_{\text{rest}}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")

StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
Columns	
table dataset	(name="Signal", description="Table for science data.")
Metadata	
Columns	
Int1d	detnum (description="null", quantity="none")
Int1d	row (description="null", quantity="none")
Int1d	column (description="null", quantity="none")
Int1d	reset (description="null", quantity="none")
Double2d	readouts (description="null", quantity="none")

3.6.20. PACS Product Level 0 - Raw Data Spectrometer red

<i>product (type="HPSRAWRS", description="Raw Data Spectrometer red")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")

DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
StringParameter	camName (description="Name of the Camera")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
BooleanParameter	Initialized (description="null")
LongParameter	Obsid (description="null")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product Level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")

StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")

DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
<i>Columns</i>	
<i>table dataset</i>	(name="Signal", description="Table for science data.")
<i>Metadata</i>	
<i>Columns</i>	
<i>IntId</i>	detnum (description="null", quantity="none")

	<i>Int1d</i>	row (description="null", quantity="none")
	<i>Int1d</i>	column (description="null", quantity="none")
	<i>Int1d</i>	reset (description="null", quantity="none")
	<i>Double2d</i>	readouts (description="null", quantity="none")

3.6.21. PACS Product Level 0.5 - Spectroscopy raw DecMec status blue product

<i>product (type="HPSDMCBS", description="Spectroscopy raw DecMec status blue product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")

StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")

LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")

StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	repetition (description="SLICE_INFO: repetition", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
LongParameter	sliceNumber (description="Slice number", quantity="micrometer")
<i>Columns</i>	
<i>table dataset</i>	(name="DmcHeader", description="Status")
<i>Metadata</i>	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
LongParameter	DIM2 (description="Number of measures per status parameter")
<i>Columns</i>	
<i>IntId</i>	RESETINDEX (description="Indicates the reset index of the status parameters", quantity="none")
<i>IntId</i>	OBSID (description="Identifier of the observation", quantity="none")
<i>IntId</i>	BBID (description="Building block type", quantity="none")

<i>Int2d</i>	LBL (description="Label", quantity="none")
<i>Int2d</i>	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
<i>Int2d</i>	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
<i>Long2d</i>	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
<i>Int2d</i>	VLD (description="Validity flag set by DecMec", quantity="none")
<i>Int2d</i>	CPR (description="Chopper position", quantity="none")
<i>Int2d</i>	WPR (description="Filter wheel Position", quantity="none")
<i>Int2d</i>	GPR (description="Grating Position", quantity="none")
<i>Int2d</i>	CRCRMP (description="Readout counter within an integration ramp", quantity="none")
<i>Int2d</i>	RRR (description="Readouts in Ramp", quantity="none")
<i>Int2d</i>	CRDC (description="Current Readout counter since last time reset", quantity="none")
<i>Int2d</i>	CRECR (description="CRE status word", quantity="none")

3.6.22. PACS Product Level 0.5 - Spectroscopy raw DecMec status blue product

<i>product (type="HPSDMCBS", description="Spectroscopy raw DecMec status blue product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")

StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")

BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")

LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
LongParameter	sliceNumber (description="Slice number", quantity="micrometer")
Columns	

<i>table dataset</i> (name="DmcHeader", description="Status")	
<i>Metadata</i>	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
LongParameter	DIM2 (description="Number of measures per status parameter")
<i>Columns</i>	
<i>Int1d</i>	RESETINDEX (description="Indicates the reset index of the status parameters", quantity="none")
<i>Int1d</i>	OBSID (description="Identifier of the observation", quantity="none")
<i>Int1d</i>	BBID (description="Building block type", quantity="none")
<i>Int2d</i>	LBL (description="Label", quantity="none")
<i>Int2d</i>	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
<i>Int2d</i>	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
<i>Long2d</i>	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
<i>Int2d</i>	VLD (description="Validity flag set by DecMec", quantity="none")
<i>Int2d</i>	CPR (description="Chopper position", quantity="none")
<i>Int2d</i>	WPR (description="Filter wheel Position", quantity="none")
<i>Int2d</i>	GPR (description="Grating Position", quantity="none")
<i>Int2d</i>	CRCRMP (description="Readout counter within an integration ramp", quantity="none")
<i>Int2d</i>	RRR (description="Readouts in Ramp", quantity="none")
<i>Int2d</i>	CRDC (description="Current Readout counter since last time reset", quantity="none")
<i>Int2d</i>	CRECR (description="CRE status word", quantity="none")

3.6.23. PACS Product Level 0.5 - Spectroscopy raw DecMec status red product

<i>product</i> (type="HPSDMCRS", description="Spectroscopy raw DecMec status red product")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")

LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")

StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")

StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="s")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="s")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="s")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="s")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="s")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="s")
LongParameter	order (description="SLICE_INFO: filter order", quantity="s")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="s")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")

BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	repetition (description="SLICE_INFO: repetition", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
LongParameter	sliceNumber (description="Slice number", quantity="micrometer")
Columns	
table dataset	(name="DmcHeader", description="Status")
Metadata	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
LongParameter	DIM2 (description="Number of measures per status parameter")
Columns	
Int1d	RESETINDEX (description="Indicates the reset index of the status parameters", quantity="none")
Int1d	OBSID (description="Identifier of the observation", quantity="none")
Int1d	BBID (description="Building block type", quantity="none")
Int2d	LBL (description="Label", quantity="none")
Int2d	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
Int2d	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
Long2d	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
Int2d	VLD (description="Validity flag set by DecMec", quantity="none")
Int2d	CPR (description="Chopper position", quantity="none")
Int2d	WPR (description="Filter wheel Position", quantity="none")
Int2d	GPR (description="Grating Position", quantity="none")
Int2d	CRCRMP (description="Readout counter within an integration ramp", quantity="none")
Int2d	RRR (description="Readouts in Ramp", quantity="none")
Int2d	CRDC (description="Current Readout counter since last time reset", quantity="none")
Int2d	CRECR (description="CRE status word", quantity="none")

3.6.24. PACS Product Level 0.5 - Spectroscopy raw DecMec status red product

<i>product (type="HPSDMCRS", description="Spectroscopy raw DecMec status red product")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")

DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")

StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")

StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="s")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="s")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="s")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="s")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="s")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="s")
LongParameter	order (description="SLICE_INFO: filter order", quantity="s")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="s")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")

StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
LongParameter	sliceNumber (description="Slice number", quantity="micrometer")
Columns	
table dataset	(name="DmcHeader", description="Status")
Metadata	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
LongParameter	DIM2 (description="Number of measures per status parameter")
Columns	
Int1d	RESETINDEX (description="Indicates the reset index of the status parameters", quantity="none")
Int1d	OBSID (description="Identifier of the observation", quantity="none")
Int1d	BBID (description="Building block type", quantity="none")
Int2d	LBL (description="Label", quantity="none")
Int2d	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
Int2d	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
Long2d	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
Int2d	VLD (description="Validity flag set by DecMec", quantity="none")
Int2d	CPR (description="Chopper position", quantity="none")
Int2d	WPR (description="Filter wheel Position", quantity="none")
Int2d	GPR (description="Grating Position", quantity="none")
Int2d	CRCRMP (description="Readout counter within an integration ramp", quantity="none")
Int2d	RRR (description="Readouts in Ramp", quantity="none")
Int2d	CRDC (description="Current Readout counter since last time reset", quantity="none")
Int2d	CRECR (description="CRE status word", quantity="none")

3.6.25. PACS Product Level 0.5 - Spectroscopy slope fitted blue product

<i>product (type="HPSFITBS", description="Spectroscopy slope fitted blue product")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")

LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")

DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")

StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")

StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	repetition (description="SLICE_INFO: repetition", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double3d</i>	(description="null", quantity="V s-1")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Ra", description="null")

	()
<i>array dataset</i>	Dataset similar to the one above with (name="Dec", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Wave", description="null")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

3.6.26. PACS Product Level 0.5 - Spectroscopy slope fitted blue product

<i>product (type="HPSFITBS", description="Spectroscopy slope fitted blue product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")

StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")

DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")

DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")

LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")

LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")			
Columns				
array dataset	(description="null")			
Metadata				
Columns				
Double3d	(description="null", quantity="V s-1")			
	()			
array dataset	Dataset similar to the one above with (name="Ra", description="null")			
	()			
array dataset	Dataset similar to the one above with (name="Dec", description="null")			
	()			
array dataset	Dataset similar to the one above with (name="Wave", description="null")			
	()			
composite dataset	Dataset similar to the one above with (name="History", description="History of product")			

3.6.27. PACS Product Level 0.5 - Spectroscopy slope fitted red product

<i>product (type="HPSFITRS", description="Spectroscopy slope fitted red product")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")

DoubleParameter	subType (description="HSPOT: Product subtype: 1:BolRed 2:BolBlue 3:SpecRed 4:SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")

StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")

BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")

StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")

DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	repetition (description="SLICE_INFO: repetition", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
Columns	
array dataset	(description="null")
Metadata	
Columns	
Double3d	(description="null", quantity="V s-1")
	()
array dataset	Dataset similar to the one above with (name="Ra", description="null")
	()
array dataset	Dataset similar to the one above with (name="Dec", description="null")
	()
array dataset	Dataset similar to the one above with (name="Wave", description="null")
	()
composite dataset	Dataset similar to the one above with (name="History", description="History of product")

3.6.28. PACS Product Level 0.5 - Spectroscopy slope fitted red product

<i>product (type="HPSFITRS", description="Spectroscopy slope fitted red product")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")

DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")

StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")

StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")

StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")

DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double3d</i>	(description="null", quantity="V s-1")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Ra", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Dec", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Wave", description="null")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

3.6.29. PACS Product Level 0 - HPEVENTS

<i>product (type="HPEVENTS", description="HPEVENTS")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")

StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfiguration (description="Mission Configuration")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")

StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	lWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineId (description="HSPOT: line ID", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")

StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
StringParameter	level (description="Product Level", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
<i>Columns</i>	
<i>table dataset</i>	(name="HPEVENTS", description="Generated from PacketSequence \$Revision: 1.1 \$")
<i>Metadata</i>	
StringParameter	revision (description="PacketSequence Revision from which this data was generated.")
<i>Columns</i>	
<i>LongId</i>	Time (description="Time [microseconds]", quantity="microseconds")
<i>LongId</i>	HD_SPARE_3 (description="HD_SPARE_3 [raw]", quantity="none")
<i>LongId</i>	EVENT_SID (description="EVENT_SID [raw]", quantity="none")
<i>StringId</i>	EVENT_COUNT_ID (description="EVENT_COUNT_ID", quantity="none")
<i>LongId</i>	HD_VERSION_NUMB (description="HD_VERSION_NUMB [raw]", quantity="none")
<i>LongId</i>	EVENT_OBSID (description="EVENT_OBSID [raw]", quantity="none")
<i>LongId</i>	HD_LENGTH (description="HD_LENGTH [raw]", quantity="none")
<i>LongId</i>	FIRST32BIT_TIME (description="FIRST32BIT_TIME [raw]", quantity="none")
<i>LongId</i>	HD_APID (description="HD_APID [raw]", quantity="none")
<i>LongId</i>	HD_SPARE_1 (description="HD_SPARE_1 [raw]", quantity="none")

<i>LongId</i>	HD_PACKET_TYPE (description="HD_PACKET_TYPE [raw]", quantity="none")
<i>DoubleId</i>	LAST_16BIT_TIME (description="LAST_16BIT_TIME [eng, s]", quantity="none")
<i>LongId</i>	HD_SPARE_2 (description="HD_SPARE_2 [raw]", quantity="none")
<i>LongId</i>	EVENT_BBID (description="EVENT_BBID [raw]", quantity="none")
<i>LongId</i>	HD_PUS_VERSION (description="HD_PUS_VERSION [raw]", quantity="none")
<i>LongId</i>	HD_SEG_FLAG (description="HD_SEG_FLAG [raw]", quantity="none")
<i>LongId</i>	HD_PCKT_SUBTYPE (description="HD_PCKT_SUBTYPE [raw]", quantity="none")
<i>StringId</i>	EVENT_ID (description="EVENT_ID", quantity="none")
<i>LongId</i>	HD_SRC_SEQ_CTN (description="HD_SRC_SEQ_CTN [raw]", quantity="none")
<i>LongId</i>	HD_DATA_FLAG (description="HD_DATA_FLAG [raw]", quantity="none")
<i>LongId</i>	HD_SOURCE_TYPE (description="HD_SOURCE_TYPE [raw]", quantity="none")
<i>LongId</i>	EVENT_COUNTER (description="EVENT_COUNTER [raw]", quantity="none")
<i>DoubleId</i>	PACKET_COUNTER (description="PACKET_COUNTER [raw]", quantity="none")
<i>DoubleId</i>	PARAMETER_A1 (description="PARAMETER_A1 [raw]", quantity="none")
<i>DoubleId</i>	PACKET_ECHO2 (description="PACKET_ECHO2 [raw]", quantity="none")
<i>DoubleId</i>	STATE (description="STATE [raw]", quantity="none")
<i>DoubleId</i>	PACKET_ECHO1 (description="PACKET_ECHO1 [raw]", quantity="none")
<i>DoubleId</i>	FCS_CRC (description="FCS_CRC [raw]", quantity="none")
<i>DoubleId</i>	PARAMETER_A (description="PARAMETER_A [raw]", quantity="none")
<i>DoubleId</i>	PIX_VALUE (description="PIX_VALUE [raw]", quantity="none")
<i>DoubleId</i>	STATUS (description="STATUS [raw]", quantity="none")
<i>DoubleId</i>	SECOND_VALUE_1 (description="SECOND_VALUE_1 [raw]", quantity="none")
<i>DoubleId</i>	FIRST_VALUE_1 (description="FIRST_VALUE_1 [raw]", quantity="none")
<i>DoubleId</i>	FIRST_WORD (description="FIRST_WORD [raw]", quantity="none")
<i>DoubleId</i>	1355_LINK_5 (description="1355_LINK_5 [raw]", quantity="none")
<i>DoubleId</i>	SECOND_WORD (description="SECOND_WORD [raw]", quantity="none")
<i>DoubleId</i>	SECOND_VALUE_2 (description="SECOND_VALUE_2 [raw]", quantity="none")

<i>DoubleId</i>	FIRST_VALUE_2 (description="FIRST_VALUE_2 [raw]", quantity="none")
<i>DoubleId</i>	II_COMD_WORD_6 (description="II_COMD_WORD_6 [raw]", quantity="none")
<i>DoubleId</i>	II_ACK_WORD_6 (description="II_ACK_WORD_6 [raw]", quantity="none")
<i>DoubleId</i>	I_COMD_WORD_6 (description="I_COMD_WORD_6 [raw]", quantity="none")
<i>DoubleId</i>	1355_LINK_6 (description="1355_LINK_6 [raw]", quantity="none")
<i>DoubleId</i>	I_ACK_WORD_6 (description="I_ACK_WORD_6 [raw]", quantity="none")
<i>LongId</i>	RECEIVED_WORD_8 (description="RECEIVED_WORD_8 [raw]", quantity="none")
<i>StringId</i>	1355_LINK_8 (description="1355_LINK_8", quantity="none")
<i>LongId</i>	HEADER_8 (description="HEADER_8 [raw]", quantity="none")
<i>LongId</i>	EXPEC_LENGTH_8 (description="EXPEC_LENGTH_8 [raw]", quantity="none")

3.6.30. PACS Product Level 0 - HPTCVERS

<i>product</i> (type="HPTCVERS", description="HPTCVERS")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfiguration (description="Mission Configuration")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")

StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")

BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	lWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineId (description="HSPOT: line ID", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
StringParameter	level (description="Product Level", quantity="s")

DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
Columns	
table dataset	(name="HPTCVERS", description="Generated from PacketSequence \$Revision: 1.1 \$")
Metadata	
StringParameter	revision (description="PacketSequence Revision from which this data was generated.")
Columns	
LongId	Time (description="Time [microseconds]", quantity="microseconds")
LongId	HD_SPARE_3 (description="HD_SPARE_3 [raw]", quantity="none")
LongId	HD_VERSION_NUMB (description="HD_VERSION_NUMB [raw]", quantity="none")
LongId	HD_LENGTH (description="HD_LENGTH [raw]", quantity="none")
LongId	HD_APID (description="HD_APID [raw]", quantity="none")
LongId	HD_SPARE_1 (description="HD_SPARE_1 [raw]", quantity="none")
DoubleId	HD_PACKET_TYPE (description="HD_PACKET_TYPE [raw]", quantity="none")
LongId	HD_SPARE_2 (description="HD_SPARE_2 [raw]", quantity="none")
LongId	HD_PUS_VERSION (description="HD_PUS_VERSION [raw]", quantity="none")
LongId	HD_SEG_FLAG (description="HD_SEG_FLAG [raw]", quantity="none")
DoubleId	HD_PCKT_SUBTYPE (description="HD_PCKT_SUBTYPE [raw]", quantity="none")
LongId	HD_SRC_SEQ_CTN (description="HD_SRC_SEQ_CTN [raw]", quantity="none")
LongId	HD_DATA_FLAG (description="HD_DATA_FLAG [raw]", quantity="none")
LongId	HD_TIME (description="HD_TIME [raw]", quantity="none")
LongId	HD_SOURCE_TYPE (description="HD_SOURCE_TYPE [raw]", quantity="none")
LongId	PCKT_SEQ_CONTR (description="PCKT_SEQ_CONTR [raw]", quantity="none")
LongId	TC_PACKET_TYPE (description="TC_PACKET_TYPE [raw]", quantity="none")
LongId	TC_PACKET_ID (description="TC_PACKET_ID [raw]", quantity="none")
LongId	TC_PCKT_SUBTYPE (description="TC_PCKT_SUBTYPE [raw]", quantity="none")
LongId	FIRST32BIT_TIME (description="FIRST32BIT_TIME [raw]", quantity="none")
DoubleId	LAST_16BIT_TIME (description="LAST_16BIT_TIME [eng, s]", quantity="none")

3.6.31. PACS Product Level 0 - HPGENHKS

<i>product (type="HPGENHKS", description="HPGENHKS")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfiguration (description="Mission Configuration")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")

DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	lWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineId (description="HSPOT: line ID", quantity="deg")

StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
StringParameter	level (description="Product Level", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
<i>Columns</i>	
<i>table dataset</i>	(name="HPGENHKS", description="Generated from PacketSequence \$Revision: 1.1 \$")
<i>Metadata</i>	
StringParameter	revision (description="PacketSequence Revision from which this data was generated.")
<i>Columns</i>	
<i>LongId</i>	Time (description="Time [microseconds]", quantity="microseconds")
<i>DoubleId</i>	DM_CAL_SRC_TEMP (description="DM_CAL_SRC_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_SEQ_ERR_NS (description="DM_SEQ_ERR_NS", quantity="none")
<i>LongId</i>	DM_DBR_ERROR (description="DM_DBR_ERROR [raw]", quantity="none")
<i>StringId</i>	DP_BUFFER_STAT (description="DP_BUFFER_STAT", quantity="none")

<i>DoubleId</i>	BOL_TEMP_TS (description="BOL_TEMP_TS [eng, K]", quantity="none")
<i>StringId</i>	DM_DRR_SENDING (description="DM_DRR_SENDING", quantity="none")
<i>StringId</i>	DM_DRC_LINK (description="DM_DRC_LINK", quantity="none")
<i>LongId</i>	DM_HKD_SPARE3 (description="DM_HKD_SPARE3 [raw]", quantity="none")
<i>StringId</i>	DM_DBR_LINK (description="DM_DBR_LINK", quantity="none")
<i>StringId</i>	DM_BPE_ERR_NS (description="DM_BPE_ERR_NS", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_FPU (description="DP_EV_BOL_I_FPU", quantity="none")
<i>StringId</i>	DP_SPUL_CMD (description="DP_SPUL_CMD", quantity="none")
<i>StringId</i>	DM_DRR_ERR_NS (description="DM_DRR_ERR_NS", quantity="none")
<i>LongId</i>	DM_BLUE_PAC_ENC (description="DM_BLUE_PAC_ENC [raw]", quantity="none")
<i>DoubleId</i>	DM_SPU_VCC_CUR (description="DM_SPU_VCC_CUR [eng, A]", quantity="none")
<i>LongId</i>	DM_HK_CTRL_STAT (description="DM_HK_CTRL_STAT [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_T_FPU (description="DP_EV_BOL_T_FPU", quantity="none")
<i>LongId</i>	DM_PM_DF_IND (description="DM_PM_DF_IND [raw]", quantity="none")
<i>LongId</i>	DM_HKCO_ERROR (description="DM_HKCO_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_DPUS_SPARE4 (description="DM_DPUS_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DM_HKD_SPARE1 (description="DM_HKD_SPARE1 [raw]", quantity="none")
<i>LongId</i>	DM_DPU_REC_STAT (description="DM_DPU_REC_STAT [raw]", quantity="none")
<i>StringId</i>	DP_OBCP_MANAGER (description="DP_OBCP_MANAGER", quantity="none")
<i>LongId</i>	HD_SPARE_3 (description="HD_SPARE_3 [raw]", quantity="none")
<i>StringId</i>	DM_BC_ERR_NS (description="DM_BC_ERR_NS", quantity="none")
<i>StringId</i>	DP_DEC_LINK (description="DP_DEC_LINK", quantity="none")
<i>LongId</i>	HD_VERSION_NUMB (description="HD_VERSION_NUMB [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_SP (description="BOL_TEMP_SP [eng, K]", quantity="none")
<i>StringId</i>	DP_SPUS_HK (description="DP_SPUS_HK", quantity="none")
<i>LongId</i>	DM_DBR_SPARE2 (description="DM_DBR_SPARE2 [raw]", quantity="none")
<i>LongId</i>	DM_HKCO_SPARE5 (description="DM_HKCO_SPARE5 [raw]", quantity="none")

<i>StringId</i>	DM_HKCO_TASK_AL (description="DM_HKCO_TASK_AL", quantity="none")
<i>LongId</i>	HD_SPARE_1 (description="HD_SPARE_1 [raw]", quantity="none")
<i>LongId</i>	HD_PACKET_TYPE (description="HD_PACKET_TYPE [raw]", quantity="none")
<i>LongId</i>	HD_SPARE_2 (description="HD_SPARE_2 [raw]", quantity="none")
<i>LongId</i>	SPS_VID (description="SPS_VID [raw]", quantity="none")
<i>LongId</i>	SPS_MEM_CNTS (description="SPS_MEM_CNTS [raw]", quantity="none")
<i>StringId</i>	DM_FPU_GR_TS_ST (description="DM_FPU_GR_TS_ST", quantity="none")
<i>StringId</i>	DM_BC_TASK_AL (description="DM_BC_TASK_AL", quantity="none")
<i>StringId</i>	DM_BC_LINK (description="DM_BC_LINK", quantity="none")
<i>LongId</i>	DM_BR_ERROR (description="DM_BR_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_FPU_FWP_TS_S (description="DM_FPU_FWP_TS_S", quantity="none")
<i>StringId</i>	DP_SPUS_CMD (description="DP_SPUS_CMD", quantity="none")
<i>DoubleId</i>	DM_DSP_TEMP (description="DM_DSP_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_BR_SIM_TIME (description="DM_BR_SIM_TIME", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_4 (description="BOL_TEMP_R_4 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_5 (description="BOL_TEMP_R_5 [eng, degC]", quantity="none")
<i>StringId</i>	SPS_DMC_ERROR (description="SPS_DMC_ERROR", quantity="none")
<i>StringId</i>	DP_SPUL_LINK (description="DP_SPUL_LINK", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_1 (description="BOL_TEMP_R_1 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_2 (description="BOL_TEMP_R_2 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_3 (description="BOL_TEMP_R_3 [eng, degC]", quantity="none")
<i>StringId</i>	DM_SW_ALIVE (description="DM_SW_ALIVE", quantity="none")
<i>StringId</i>	DM_SEQ_RUNNING (description="DM_SEQ_RUNNING", quantity="none")
<i>StringId</i>	DM_DPUR_TASK_AL (description="DM_DPUR_TASK_AL", quantity="none")
<i>DoubleId</i>	LAST_16BIT_TIME (description="LAST_16BIT_TIME [eng, s]", quantity="none")
<i>StringId</i>	DM_DRR_TASK_WR (description="DM_DRR_TASK_WR", quantity="none")
<i>DoubleId</i>	BOL_TEMP_B_3 (description="BOL_TEMP_B_3 [eng, degC]", quantity="none")

<i>StringId</i>	DM_DBR_TASK_AL (description="DM_DBR_TASK_AL", quantity="none")
<i>LongId</i>	DP_GEN_TM_LOST (description="DP_GEN_TM_LOST [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_B_2 (description="BOL_TEMP_B_2 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_B_1 (description="BOL_TEMP_B_1 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_DAQ (description="BOL_TEMP_DAQ [eng, degC]", quantity="none")
<i>StringId</i>	DP_TEST_MODE (description="DP_TEST_MODE", quantity="none")
<i>LongId</i>	DM_CHOP_CUR_POS (description="DM_CHOP_CUR_POS [raw]", quantity="none")
<i>StringId</i>	DM_RPE_TASK_AL (description="DM_RPE_TASK_AL", quantity="none")
<i>DoubleId</i>	DM_FW_PHOT_TEMP (description="DM_FW_PHOT_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DP_BLUE_SCIENCE (description="DP_BLUE_SCIENCE", quantity="none")
<i>StringId</i>	DP_UNIT (description="DP_UNIT", quantity="none")
<i>StringId</i>	DP_DMC_CMD (description="DP_DMC_CMD", quantity="none")
<i>LongId</i>	DM_TIME_2 (description="DM_TIME_2 [raw]", quantity="none")
<i>LongId</i>	DM_DRR_ERROR (description="DM_DRR_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_TIME_1 (description="DM_TIME_1 [raw]", quantity="none")
<i>LongId</i>	DP_SPUS_LINK_PE (description="DP_SPUS_LINK_PE [raw]", quantity="none")
<i>LongId</i>	DM_BR_SPARE2 (description="DM_BR_SPARE2 [raw]", quantity="none")
<i>LongId</i>	DM_PM_SF_IND (description="DM_PM_SF_IND [raw]", quantity="none")
<i>LongId</i>	DM_BPE_ERROR (description="DM_BPE_ERROR [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_EV (description="BOL_TEMP_EV [eng, K]", quantity="none")
<i>LongId</i>	DP_COM_SPL_PACK (description="DP_COM_SPL_PACK [raw]", quantity="none")
<i>StringId</i>	DM_DBC_LINK (description="DM_DBC_LINK", quantity="none")
<i>StringId</i>	DM_DPUS_ERR_NS (description="DM_DPUS_ERR_NS", quantity="none")
<i>StringId</i>	DM_FWPH_CUR_POS (description="DM_FWPH_CUR_POS", quantity="none")
<i>LongId</i>	DM_DPUS_ERROR (description="DM_DPUS_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_HKD_TASK_WR (description="DM_HKD_TASK_WR", quantity="none")

<i>StringId</i>	DP_STABLE_SPS (description="DP_STABLE_SPS", quantity="none")
<i>LongId</i>	DM_DECBC_CTRL_PA (description="DM_DECBC_CTRL_PA [raw]", quantity="none")
<i>LongId</i>	DM_BOL_READ_CNT (description="DM_BOL_READ_CNT [raw]", quantity="none")
<i>StringId</i>	DM_HKCO_ERR_NS (description="DM_HKCO_ERR_NS", quantity="none")
<i>LongId</i>	FIRST32BIT_TIME (description="FIRST32BIT_TIME [raw]", quantity="none")
<i>StringId</i>	DM_HKD_DIAGMODE (description="DM_HKD_DIAGMODE", quantity="none")
<i>StringId</i>	DP_1553_HANDLER (description="DP_1553_HANDLER", quantity="none")
<i>StringId</i>	DM_DRC_TASK_AL (description="DM_DRC_TASK_AL", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF12 (description="DM_LAST_ER_BF12 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF13 (description="DM_LAST_ER_BF13 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF14 (description="DM_LAST_ER_BF14 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF15 (description="DM_LAST_ER_BF15 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF10 (description="DM_LAST_ER_BF10 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF11 (description="DM_LAST_ER_BF11 [raw]", quantity="none")
<i>LongId</i>	DM_RPE_ERROR (description="DM_RPE_ERROR [raw]", quantity="none")
<i>DoubleId</i>	DM_PSC_V2 (description="DM_PSC_V2 [eng, mA]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF16 (description="DM_LAST_ER_BF16 [raw]", quantity="none")
<i>DoubleId</i>	DM_PSC_V1 (description="DM_PSC_V1 [eng, A]", quantity="none")
<i>DoubleId</i>	DM_PSC_V4 (description="DM_PSC_V4 [eng, A]", quantity="none")
<i>StringId</i>	DP_EEPROM_PROT (description="DP_EEPROM_PROT", quantity="none")
<i>DoubleId</i>	DM_PSC_V3 (description="DM_PSC_V3 [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_SPU_PS_TEMP (description="DM_SPU_PS_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_HKD_ERR_NS (description="DM_HKD_ERR_NS", quantity="none")
<i>LongId</i>	DP_COM_DMC (description="DP_COM_DMC [raw]", quantity="none")

<i>StringId</i>	DP_OBCP_RUN (description="DP_OBCP_RUN", quantity="none")
<i>StringId</i>	DP_IRQ3_TASK (description="DP_IRQ3_TASK", quantity="none")
<i>DoubleId</i>	DM_FPU_T2_TEMP (description="DM_FPU_T2_TEMP [eng, K]", quantity="none")
<i>DoubleId</i>	DM_REF_VOLT_0V (description="DM_REF_VOLT_0V [eng, V]", quantity="none")
<i>StringId</i>	DM_FPU_S1_TS_ST (description="DM_FPU_S1_TS_ST", quantity="none")
<i>LongId</i>	SID (description="SID [raw]", quantity="none")
<i>LongId</i>	SPS_PIX (description="SPS_PIX [raw]", quantity="none")
<i>DoubleId</i>	BOL_HEATER_FPU (description="BOL_HEATER_FPU [eng, A]", quantity="none")
<i>StringId</i>	DM_BPE_TASK_AL (description="DM_BPE_TASK_AL", quantity="none")
<i>StringId</i>	DM_FPU_CH_TS_ST (description="DM_FPU_CH_TS_ST", quantity="none")
<i>DoubleId</i>	DM_CPU_LOAD (description="DM_CPU_LOAD [eng, %]", quantity="none")
<i>LongId</i>	DM_BBID (description="DM_BBID [raw]", quantity="none")
<i>StringId</i>	DP_STABLE_SPL (description="DP_STABLE_SPL", quantity="none")
<i>StringId</i>	DM_DBR_ERR_NS (description="DM_DBR_ERR_NS", quantity="none")
<i>StringId</i>	DM_DPUR_ERR_NS (description="DM_DPUR_ERR_NS", quantity="none")
<i>StringId</i>	DM_FPU_FWS_TS_S (description="DM_FPU_FWS_TS_S", quantity="none")
<i>StringId</i>	SPS_DMC_LINK (description="SPS_DMC_LINK", quantity="none")
<i>DoubleId</i>	DM_FPU_T1_TEMP (description="DM_FPU_T1_TEMP [eng, K]", quantity="none")
<i>LongId</i>	SPL_VID (description="SPL_VID [raw]", quantity="none")
<i>LongId</i>	DM_BOL_CTRL_PAC (description="DM_BOL_CTRL_PAC [raw]", quantity="none")
<i>DoubleId</i>	BOL_HEAT_SP_SWT (description="BOL_HEAT_SP_SWT [eng, A]", quantity="none")
<i>LongId</i>	DP_COM_DMC_PACK (description="DP_COM_DMC_PACK [raw]", quantity="none")
<i>LongId</i>	DM_DECR_CTRL_PA (description="DM_DECR_CTRL_PA [raw]", quantity="none")
<i>LongId</i>	DM_BLUE_ENC_PAC (description="DM_BLUE_ENC_PAC [raw]", quantity="none")
<i>LongId</i>	DP_SPUL_LINK_DE (description="DP_SPUL_LINK_DE [raw]", quantity="none")
<i>DoubleId</i>	DM_SPU_VP_CUR (description="DM_SPU_VP_CUR [eng, mA]", quantity="none")
<i>LongId</i>	HD_APIID (description="HD_APIID [raw]", quantity="none")

<i>DoubleId</i>	BOL_I_HEATER_2R (description="BOL_I_HEATER_2R [eng, A]", quantity="none")
<i>LongId</i>	DM_DRC_SPARE3 (description="DM_DRC_SPARE3 [raw]", quantity="none")
<i>LongId</i>	HD_SEG_FLAG (description="HD_SEG_FLAG [raw]", quantity="none")
<i>StringId</i>	DP_STABLE_DEC (description="DP_STABLE_DEC", quantity="none")
<i>LongId</i>	DM_BOL_STATUS (description="DM_BOL_STATUS [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ERR_ID (description="DM_LAST_ERR_ID [raw]", quantity="none")
<i>LongId</i>	DM_B_SPEC_READ (description="DM_B_SPEC_READ [raw]", quantity="none")
<i>LongId</i>	DM_RED_ENC_PAC (description="DM_RED_ENC_PAC [raw]", quantity="none")
<i>StringId</i>	DP_EV_DEC_SPC (description="DP_EV_DEC_SPC", quantity="none")
<i>DoubleId</i>	DM_SPU_VCC_VOL (description="DM_SPU_VCC_VOL [eng, V]", quantity="none")
<i>StringId</i>	DP_SPL_LINK (description="DP_SPL_LINK", quantity="none")
<i>LongId</i>	DM_IRS_CNT (description="DM_IRS_CNT [raw]", quantity="none")
<i>DoubleId</i>	DM_CHOPPER_TEMP (description="DM_CHOPPER_TEMP [eng, K]", quantity="none")
<i>StringId</i>	SPL_DMC_LINK (description="SPL_DMC_LINK", quantity="none")
<i>LongId</i>	DM_SW_SPARE5 (description="DM_SW_SPARE5 [raw]", quantity="none")
<i>LongId</i>	DP_COM_SPS_NACK (description="DP_COM_SPS_NACK [raw]", quantity="none")
<i>StringId</i>	DM_BR_TASK_WR (description="DM_BR_TASK_WR", quantity="none")
<i>LongId</i>	DM_BPE_SPARE4 (description="DM_BPE_SPARE4 [raw]", quantity="none")
<i>StringId</i>	DM_DBR_SENDING (description="DM_DBR_SENDING", quantity="none")
<i>LongId</i>	DP_DEC_LINK_PE (description="DP_DEC_LINK_PE [raw]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_1R (description="BOL_I_HEATER_1R [eng, A]", quantity="none")
<i>LongId</i>	DP_TC_LOST (description="DP_TC_LOST [raw]", quantity="none")
<i>StringId</i>	DP_RED_SCIENCE (description="DP_RED_SCIENCE", quantity="none")
<i>DoubleId</i>	SPS_CPUWORKLOAD (description="SPS_CPUWORKLOAD [eng, %]", quantity="none")
<i>StringId</i>	DM_DBC_TASK_WR (description="DM_DBC_TASK_WR", quantity="none")

<i>LongId</i>	DP_COM_SPUS (description="DP_COM_SPUS [raw]", quantity="none")
<i>LongId</i>	HD_SRC_SEQ_CTN (description="HD_SRC_SEQ_CTN [raw]", quantity="none")
<i>StringId</i>	DM_DPUR_TASK_WR (description="DM_DPUR_TASK_WR", quantity="none")
<i>LongId</i>	DP_COM_SPUL (description="DP_COM_SPUL [raw]", quantity="none")
<i>StringId</i>	DM_SEQ_TASK_AL (description="DM_SEQ_TASK_AL", quantity="none")
<i>DoubleId</i>	BOL_TEMP_SP_SWT (description="BOL_TEMP_SP_SWT [eng, K]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B2 (description="BOL_I_HEATER_B2 [eng, A]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B3 (description="BOL_I_HEATER_B3 [eng, A]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B4 (description="BOL_I_HEATER_B4 [eng, A]", quantity="none")
<i>StringId</i>	DM_RPE_LINK (description="DM_RPE_LINK", quantity="none")
<i>LongId</i>	DM_SEQ_STATUS (description="DM_SEQ_STATUS [raw]", quantity="none")
<i>LongId</i>	DM_DBC_SPARE3 (description="DM_DBC_SPARE3 [raw]", quantity="none")
<i>LongId</i>	DM_RPE_SPARE4 (description="DM_RPE_SPARE4 [raw]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B1 (description="BOL_I_HEATER_B1 [eng, A]", quantity="none")
<i>StringId</i>	DM_RPE_TASK_WR (description="DM_RPE_TASK_WR", quantity="none")
<i>StringId</i>	DP_WHICH_OBCP (description="DP_WHICH_OBCP", quantity="none")
<i>StringId</i>	DP_1553CHANNEL (description="DP_1553CHANNEL", quantity="none")
<i>LongId</i>	DM_DECB_CTRL_ST (description="DM_DECB_CTRL_ST [raw]", quantity="none")
<i>StringId</i>	DM_DBC_POWER (description="DM_DBC_POWER", quantity="none")
<i>LongId</i>	DP_COM_DMC_NACK (description="DP_COM_DMC_NACK [raw]", quantity="none")
<i>StringId</i>	DM_DRC_POWER (description="DM_DRC_POWER", quantity="none")
<i>StringId</i>	DP_COUNTER_SPS (description="DP_COUNTER_SPS", quantity="none")
<i>StringId</i>	DM_BR_TASK_AL (description="DM_BR_TASK_AL", quantity="none")
<i>LongId</i>	DM_DPUR_SPARE4 (description="DM_DPUR_SPARE4 [raw]", quantity="none")

<i>LongId</i>	DP_SW_SUBVERS_ID (description="DP_SW_SUBVERS_ID [raw]", quantity="none")
<i>StringId</i>	DM_BPE_LINK (description="DM_BPE_LINK", quantity="none")
<i>LongId</i>	DP_COM_REC_DPU (description="DP_COM_REC_DPU [raw]", quantity="none")
<i>StringId</i>	DM_DPUS_TASK_WR (description="DM_DPUS_TASK_WR", quantity="none")
<i>StringId</i>	DM_DBC_TASK_AL (description="DM_DBC_TASK_AL", quantity="none")
<i>LongId</i>	DM_R_SPEC_READ (description="DM_R_SPEC_READ [raw]", quantity="none")
<i>LongId</i>	DM_DM_SF_IND (description="DM_DM_SF_IND [raw]", quantity="none")
<i>StringId</i>	DM_SEQ_IDLE (description="DM_SEQ_IDLE", quantity="none")
<i>LongId</i>	DM_RED_PAC_ENC (description="DM_RED_PAC_ENC [raw]", quantity="none")
<i>LongId</i>	DM_FPU_T_SEN_ST (description="DM_FPU_T_SEN_ST [raw]", quantity="none")
<i>StringId</i>	DM_HKD_TASK_AL (description="DM_HKD_TASK_AL", quantity="none")
<i>LongId</i>	DM_DECB_REC_STA (description="DM_DECB_REC_STA [raw]", quantity="none")
<i>LongId</i>	DM_BOL_CTRL_STA (description="DM_BOL_CTRL_STA [raw]", quantity="none")
<i>StringId</i>	DM_DRC_ERR_NS (description="DM_DRC_ERR_NS", quantity="none")
<i>DoubleId</i>	DM_REF_VOLT_5V (description="DM_REF_VOLT_5V [eng, V]", quantity="none")
<i>StringId</i>	DP_CONTROLLER (description="DP_CONTROLLER", quantity="none")
<i>LongId</i>	DM_DPU_SEN_STAT (description="DM_DPU_SEN_STAT [raw]", quantity="none")
<i>LongId</i>	DP_COM_SPL_NACK (description="DP_COM_SPL_NACK [raw]", quantity="none")
<i>LongId</i>	SPL_CI (description="SPL_CI [raw]", quantity="none")
<i>LongId</i>	HD_SOURCE_TYPE (description="HD_SOURCE_TYPE [raw]", quantity="none")
<i>DoubleId</i>	BOL_HEAT_EV_SWT (description="BOL_HEAT_EV_SWT [eng, A]", quantity="none")
<i>LongId</i>	DM_HKD_ERROR (description="DM_HKD_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_SW_GLOBAL_ST (description="DM_SW_GLOBAL_ST [raw]", quantity="none")
<i>StringId</i>	DM_BR_ERR_NS (description="DM_BR_ERR_NS", quantity="none")
<i>DoubleId</i>	DP_T (description="DP_T [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_PSU_2 (description="BOL_TEMP_PSU_2 [eng, degC]", quantity="none")

<i>LongId</i>	DM_DECB_REC_PAC (description="DM_DECB_REC_PAC [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_PSU_1 (description="BOL_TEMP_PSU_1 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_7 (description="BOL_PWR_ANA_P_7 [eng, V]", quantity="none")
<i>LongId</i>	DP_SPUL_LINK_PE (description="DP_SPUL_LINK_PE [raw]", quantity="none")
<i>StringId</i>	DP_BURST_MODE (description="DP_BURST_MODE", quantity="none")
<i>LongId</i>	DM_DPU_SEND_PAC (description="DM_DPU_SEND_PAC [raw]", quantity="none")
<i>StringId</i>	DM_FPU_S2_TS_ST (description="DM_FPU_S2_TS_ST", quantity="none")
<i>StringId</i>	DP_DMC_LINK (description="DP_DMC_LINK", quantity="none")
<i>LongId</i>	DM_VID (description="DM_VID [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF5 (description="DM_LAST_ER_BF5 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF6 (description="DM_LAST_ER_BF6 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF3 (description="DM_LAST_ER_BF3 [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_V_PWR (description="DP_EV_BOL_V_PWR", quantity="none")
<i>LongId</i>	SPL_PIX (description="SPL_PIX [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF4 (description="DM_LAST_ER_BF4 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF9 (description="DM_LAST_ER_BF9 [raw]", quantity="none")
<i>LongId</i>	DM_BOL_REC_STAT (description="DM_BOL_REC_STAT [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF7 (description="DM_LAST_ER_BF7 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF8 (description="DM_LAST_ER_BF8 [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_SP2 (description="DP_EV_BOL_I_SP2", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF1 (description="DM_LAST_ER_BF1 [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_BIAS (description="DP_EV_BOL_BIAS", quantity="none")
<i>LongId</i>	DM_HK_DIAG_STAT (description="DM_HK_DIAG_STAT [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF2 (description="DM_LAST_ER_BF2 [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_SP1 (description="DP_EV_BOL_I_SP1", quantity="none")

<i>StringId</i>	DP_COUNTER_DEC (description="DP_COUNTER_DEC", quantity="none")
<i>LongId</i>	DP_STATUS (description="DP_STATUS [raw]", quantity="none")
<i>StringId</i>	DP_EVENT_DEC (description="DP_EVENT_DEC", quantity="none")
<i>LongId</i>	DM_DPUR_ERROR (description="DM_DPUR_ERROR [raw]", quantity="none")
<i>StringId</i>	DP_SPS_LINK (description="DP_SPS_LINK", quantity="none")
<i>LongId</i>	DP_COM_REJ_DPU (description="DP_COM_REJ_DPU [raw]", quantity="none")
<i>LongId</i>	DM_GRAT_CUR_POS (description="DM_GRAT_CUR_POS [raw]", quantity="none")
<i>LongId</i>	DM_DM_DF_IND (description="DM_DM_DF_IND [raw]", quantity="none")
<i>StringId</i>	DM_RPE_ERR_NS (description="DM_RPE_ERR_NS", quantity="none")
<i>LongId</i>	DM_OBSID (description="DM_OBSID [raw]", quantity="none")
<i>StringId</i>	DP_HK_MONITOR (description="DP_HK_MONITOR", quantity="none")
<i>LongId</i>	DM_DECR_REC_STA (description="DM_DECR_REC_STA [raw]", quantity="none")
<i>StringId</i>	DM_DBC_ERR_NS (description="DM_DBC_ERR_NS", quantity="none")
<i>DoubleId</i>	DM_SPU_PSU_P15V (description="DM_SPU_PSU_P15V [eng, V]", quantity="none")
<i>DoubleId</i>	DM_SPU_LWL_TEMP (description="DM_SPU_LWL_TEMP [eng, K]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_5 (description="DM_CUSTOM_ENT_5 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_4 (description="DM_CUSTOM_ENT_4 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_7 (description="DM_CUSTOM_ENT_7 [raw]", quantity="none")
<i>LongId</i>	DP_DEC_LINK_DE (description="DP_DEC_LINK_DE [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_6 (description="DM_CUSTOM_ENT_6 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_9 (description="DM_CUSTOM_ENT_9 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_8 (description="DM_CUSTOM_ENT_8 [raw]", quantity="none")
<i>StringId</i>	DP_HK_CHK (description="DP_HK_CHK", quantity="none")
<i>LongId</i>	DM_DECR_CTRL_ST (description="DM_DECR_CTRL_ST [raw]", quantity="none")
<i>LongId</i>	HD_DATA_FLAG (description="HD_DATA_FLAG [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_1 (description="DM_CUSTOM_ENT_1 [raw]", quantity="none")

<i>StringId</i>	DP_EV_BOL_T_WE (description="DP_EV_BOL_T_WE", quantity="none")
<i>StringId</i>	DM_DRC_TASK_WR (description="DM_DRC_TASK_WR", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_3 (description="DM_CUSTOM_ENT_3 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_2 (description="DM_CUSTOM_ENT_2 [raw]", quantity="none")
<i>StringId</i>	DM_DPUS_LINK (description="DM_DPUS_LINK", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_7 (description="BOL_PWR_DIG_7 [eng, V]", quantity="none")
<i>LongId</i>	DM_BC_SPARE4 (description="DM_BC_SPARE4 [raw]", quantity="none")
<i>StringId</i>	DM_DBR_SIM_TIME (description="DM_DBR_SIM_TIME", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_RO (description="DP_EV_BOL_I_RO", quantity="none")
<i>StringId</i>	DM_SW_COPY_OBS (description="DM_SW_COPY_OBS", quantity="none")
<i>StringId</i>	DM_SEQ_TASK_WR (description="DM_SEQ_TASK_WR", quantity="none")
<i>StringId</i>	DM_SW_ERR (description="DM_SW_ERR", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU_ST (description="BOL_TEMP_FPU_ST [eng, K]", quantity="none")
<i>StringId</i>	DM_FWSP_CUR_POS (description="DM_FWSP_CUR_POS", quantity="none")
<i>StringId</i>	DM_BR_SENDING (description="DM_BR_SENDING", quantity="none")
<i>StringId</i>	DP_EVENT_SPU (description="DP_EVENT_SPU", quantity="none")
<i>StringId</i>	DM_DPUS_TASK_AL (description="DM_DPUS_TASK_AL", quantity="none")
<i>StringId</i>	DM_DPUR_LINK (description="DM_DPUR_LINK", quantity="none")
<i>DoubleId</i>	DP_VOL_15P (description="DP_VOL_15P [eng, V]", quantity="none")
<i>StringId</i>	DM_FPU_CS_TS_ST (description="DM_FPU_CS_TS_ST", quantity="none")
<i>DoubleId</i>	DM_FW_SPEC_TEMP (description="DM_FW_SPEC_TEMP [eng, K]", quantity="none")
<i>DoubleId</i>	DP_VOL_15N (description="DP_VOL_15N [eng, V]", quantity="none")
<i>StringId</i>	DM_BR_LINK (description="DM_BR_LINK", quantity="none")
<i>StringId</i>	DM_HKCO_TASK_WR (description="DM_HKCO_TASK_WR", quantity="none")
<i>LongId</i>	SPS_CI (description="SPS_CI [raw]", quantity="none")

<i>StringId</i>	DM_DRR_TASK_AL (description="DM_DRR_TASK_AL", quantity="none")
<i>DoubleId</i>	DP_WORK_LOAD (description="DP_WORK_LOAD [eng, %]", quantity="none")
<i>LongId</i>	DP_HK_LOST (description="DP_HK_LOST [raw]", quantity="none")
<i>DoubleId</i>	DM_GRATING_TEMP (description="DM_GRATING_TEMP [eng, K]", quantity="none")
<i>LongId</i>	HD_LENGTH (description="HD_LENGTH [raw]", quantity="none")
<i>LongId</i>	DP_COM_SPS_PACK (description="DP_COM_SPS_PACK [raw]", quantity="none")
<i>LongId</i>	DP_1_8_REJECTED (description="DP_1_8_REJECTED [raw]", quantity="none")
<i>LongId</i>	DM_DRR_SPARE2 (description="DM_DRR_SPARE2 [raw]", quantity="none")
<i>LongId</i>	DM_SEQ_ERROR (description="DM_SEQ_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_DRC_ERROR (description="DM_DRC_ERROR [raw]", quantity="none")
<i>StringId</i>	DP_1355_LINK (description="DP_1355_LINK", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU1 (description="BOL_TEMP_FPU1 [eng, K]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU2 (description="BOL_TEMP_FPU2 [eng, K]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_EV_SWT (description="BOL_TEMP_EV_SWT [eng, K]", quantity="none")
<i>LongId</i>	HD_PCKT_SUBTYPE (description="HD_PCKT_SUBTYPE [raw]", quantity="none")
<i>LongId</i>	DM_DBC_ERROR (description="DM_DBC_ERROR [raw]", quantity="none")
<i>LongId</i>	DP_1_2_REJECTED (description="DP_1_2_REJECTED [raw]", quantity="none")
<i>StringId</i>	DM_BPE_TASK_WR (description="DM_BPE_TASK_WR", quantity="none")
<i>StringId</i>	DP_AF_24_SPARE (description="DP_AF_24_SPARE", quantity="none")
<i>LongId</i>	DM_SW_ERROR (description="DM_SW_ERROR [raw]", quantity="none")
<i>DoubleId</i>	DM_DCDC_TEMP (description="DM_DCDC_TEMP [eng, K]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT10 (description="DM_CUSTOM_ENT10 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_7 (description="BOL_PWR_ANA_N_7 [eng, V]", quantity="none")
<i>StringId</i>	DP_1355_HANDLER (description="DP_1355_HANDLER", quantity="none")
<i>StringId</i>	SPL_DMC_ERROR (description="SPL_DMC_ERROR", quantity="none")

<i>DoubleId</i>	DM_SPU_SWL_TEMP (description="DM_SPU_SWL_TEMP [eng, K]", quantity="none")
<i>LongId</i>	DM_HK_DIAG_PERI (description="DM_HK_DIAG_PERI [raw]", quantity="none")
<i>StringId</i>	DM_DRR_SIM_TIME (description="DM_DRR_SIM_TIME", quantity="none")
<i>LongId</i>	HD_PUS_VERSION (description="HD_PUS_VERSION [raw]", quantity="none")
<i>LongId</i>	DP_SPARE (description="DP_SPARE [raw]", quantity="none")
<i>LongId</i>	DP_SW_VERS_ID (description="DP_SW_VERS_ID [raw]", quantity="none")
<i>StringId</i>	DP_SPUL_HK (description="DP_SPUL_HK", quantity="none")
<i>LongId</i>	DM_BOL_REC_PAC (description="DM_BOL_REC_PAC [raw]", quantity="none")
<i>StringId</i>	DP_COUNTER_SPEC (description="DP_COUNTER_SPEC", quantity="none")
<i>DoubleId</i>	DP_VOL_25P (description="DP_VOL_25P [eng, V]", quantity="none")
<i>LongId</i>	DP_EVENT_LOST (description="DP_EVENT_LOST [raw]", quantity="none")
<i>StringId</i>	DM_DRR_LINK (description="DM_DRR_LINK", quantity="none")
<i>DoubleId</i>	SPL_CPUWORKLOAD (description="SPL_CPUWORKLOAD [eng, %]", quantity="none")
<i>StringId</i>	DM_DBR_TASK_WR (description="DM_DBR_TASK_WR", quantity="none")
<i>StringId</i>	DP_SPUS_LINK (description="DP_SPUS_LINK", quantity="none")
<i>StringId</i>	DP_EVENT_DPU (description="DP_EVENT_DPU", quantity="none")
<i>LongId</i>	DM_SEQ_SPARE2 (description="DM_SEQ_SPARE2 [raw]", quantity="none")
<i>DoubleId</i>	DP_VOL_5P (description="DP_VOL_5P [eng, V]", quantity="none")
<i>LongId</i>	DM_DPU_REC_PAC (description="DM_DPU_REC_PAC [raw]", quantity="none")
<i>StringId</i>	DP_COUNTER_SPL (description="DP_COUNTER_SPL", quantity="none")
<i>LongId</i>	DM_SEQ_SPARE1 (description="DM_SEQ_SPARE1 [raw]", quantity="none")
<i>StringId</i>	DM_BC_TASK_WR (description="DM_BC_TASK_WR", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_HEA (description="DP_EV_BOL_I_HEA", quantity="none")
<i>StringId</i>	DP_INIT (description="DP_INIT", quantity="none")
<i>LongId</i>	SPL_MEM_CNTS (description="SPL_MEM_CNTS [raw]", quantity="none")
<i>DoubleId</i>	BOL_HEATER_SP (description="BOL_HEATER_SP [eng, A]", quantity="none")
<i>StringId</i>	DP_COUNTER_PHOT (description="DP_COUNTER_PHOT", quantity="none")

<i>LongId</i>	DP_AF_STATUS (description="DP_AF_STATUS [raw]", quantity="none")
<i>LongId</i>	DM_DECR_REC_PAC (description="DM_DECR_REC_PAC [raw]", quantity="none")
<i>LongId</i>	DP_SPUS_LINK_DE (description="DP_SPUS_LINK_DE [raw]", quantity="none")
<i>StringId</i>	DP_TM_RATE (description="DP_TM_RATE", quantity="none")
<i>StringId</i>	DP_DMC_HK (description="DP_DMC_HK", quantity="none")
<i>LongId</i>	DM_BC_ERROR (description="DM_BC_ERROR [raw]", quantity="none")

3.6.32. PACS Product Level 0 - DecMec Data Spectrometer blue

<i>product (type="HPSDMCBS", description="DecMec Data Spectrometer blue")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
StringParameter	level (description="Product Level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")

DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")

DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	lWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineId (description="HSPOT: line ID", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")

DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")		
Columns			
table dataset	(name="DmcHeader", description="Status")		
Metadata			
StringParameter	MODE (description="null")		
LongParameter	DIM1 (description="Number of measures per status parameter")		
LongParameter	DIM2 (description="Number of measures per status parameter")		
Columns			
	Int1d	RESETINDEX (description="Indicates the reset index of the status parameters", quantity="none")	
	Int1d	OBSID (description="Identifier of the observation", quantity="none")	
	Int1d	BBID (description="Building block type", quantity="none")	
	Int2d	LBL (description="Label", quantity="none")	
	Int2d	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")	
	Int2d	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")	
	Long2d	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")	
	Int2d	VLD (description="Validity flag set by DecMec", quantity="none")	
	Int2d	CPR (description="Chopper position", quantity="none")	
	Int2d	WPR (description="Filter wheel Position", quantity="none")	
	Int2d	GPR (description="Grating Position", quantity="none")	
	Int2d	CRCRMP (description="Readout counter within an integration ramp", quantity="none")	
	Int2d	RRR (description="Readouts in Ramp", quantity="none")	
	Int2d	CRDC (description="Current Readout counter since last time reset", quantity="none")	
	Int2d	CRECR (description="CRE status word", quantity="none")	

3.6.33. PACS Product Level 0 - DecMec Data Spectrometer red

<i>product (type="HPSDMCRS", description="DecMec Data Spectrometer red")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")

DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
StringParameter	level (description="Product Level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")

StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	lWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineId (description="HSPOT: line ID", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")

StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
<i>Columns</i>	
<i>table dataset</i>	(name="DmcHeader", description="Status")
<i>Metadata</i>	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
LongParameter	DIM2 (description="Number of measures per status parameter")
<i>Columns</i>	
<i>Int1d</i>	RESETINDEX (description="Indicates the reset index of the status parameters", quantity="none")
<i>Int1d</i>	OBSID (description="Identifier of the observation", quantity="none")
<i>Int1d</i>	BBID (description="Building block type", quantity="none")
<i>Int2d</i>	LBL (description="Label", quantity="none")
<i>Int2d</i>	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
<i>Int2d</i>	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
<i>Long2d</i>	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
<i>Int2d</i>	VLD (description="Validity flag set by DecMec", quantity="none")
<i>Int2d</i>	CPR (description="Chopper position", quantity="none")
<i>Int2d</i>	WPR (description="Filter wheel Position", quantity="none")

	<i>Int2d</i>	GPR (description="Grating Position", quantity="none")
	<i>Int2d</i>	CRCRMP (description="Readout counter within an integration ramp", quantity="none")
	<i>Int2d</i>	RRR (description="Readouts in Ramp", quantity="none")
	<i>Int2d</i>	CRDC (description="Current Readout counter since last time reset", quantity="none")
	<i>Int2d</i>	CRECR (description="CRE status word", quantity="none")

3.6.34. PACS Product Level 0 - Fitted Data Spectrometer blue

<i>product (type="HPSFITBS", description="Fitted Data Spectrometer blue")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product Level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")

LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")

StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	lWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineId (description="HSPOT: line ID", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")

DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
<i>Columns</i>	
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double3d</i>	(description="null", quantity="none")

3.6.35. PACS Product Level 0 - Fitted Data Spectrometer red

<i>product (type="HPSFITRS", description="Fitted Data Spectrometer red")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")

StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product Level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")

StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	lWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineId (description="HSPOT: line ID", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")

StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
<i>Columns</i>	
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double3d</i>	(description="null", quantity="none")

3.6.36. PACS Product Level 0 - HPSHKS

<i>product (type="HPSHKS", description="HPSHKS")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfiguration (description="Mission Configuration")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")

LongParameter	obsCount (description="Observation counter")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")

LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	lWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineId (description="HSPOT: line ID", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")

DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
StringParameter	level (description="Product Level", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
<i>Columns</i>	
<i>table dataset</i>	(name="HPSHKS", description="Generated from PacketSequence \$Revision: 1.1 \$")
<i>Metadata</i>	
StringParameter	revision (description="PacketSequence Revision from which this data was generated.")
<i>Columns</i>	
<i>LongId</i>	Time (description="Time [microseconds]", quantity="microseconds")
<i>StringId</i>	DM_SEQ_ERR_NS (description="DM_SEQ_ERR_NS", quantity="none")
<i>StringId</i>	DM_CS1C_COMMUT (description="DM_CS1C_COMMUT", quantity="none")
<i>LongId</i>	DM_FW_SPEC_CTRL (description="DM_FW_SPEC_CTRL [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_BR_CM_4 (description="DM_DECB_BR_CM_4 [eng, V]", quantity="none")
<i>LongId</i>	DM_DBR_ERROR (description="DM_DBR_ERROR [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_BR_CM_3 (description="DM_DECB_BR_CM_3 [eng, V]", quantity="none")
<i>StringId</i>	DP_BUFFER_STAT (description="DP_BUFFER_STAT", quantity="none")
<i>DoubleId</i>	BOL_TEMP_TS (description="BOL_TEMP_TS [eng, K]", quantity="none")
<i>LongId</i>	DM_HKD_SPARE3 (description="DM_HKD_SPARE3 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_TS_2_2 (description="DM_DECR_TS_2_2 [eng, K]", quantity="none")
<i>StringId</i>	DM_DBR_LINK (description="DM_DBR_LINK", quantity="none")
<i>DoubleId</i>	DM_DECR_TS_2_1 (description="DM_DECR_TS_2_1 [eng, K]", quantity="none")
<i>StringId</i>	DM_BPE_ERR_NS (description="DM_BPE_ERR_NS", quantity="none")

<i>StringId</i>	DP_EV_BOL_I_FPU (description="DP_EV_BOL_I_FPU", quantity="none")
<i>StringId</i>	DM_DRR_ERR_NS (description="DM_DRR_ERR_NS", quantity="none")
<i>DoubleId</i>	DM_SPU_VCC_CUR (description="DM_SPU_VCC_CUR [eng, A]", quantity="none")
<i>LongId</i>	DM_DPUS_SPARE4 (description="DM_DPUS_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DM_HKD_SPARE1 (description="DM_HKD_SPARE1 [raw]", quantity="none")
<i>StringId</i>	DM_CC_SYNCHRO (description="DM_CC_SYNCHRO", quantity="none")
<i>DoubleId</i>	DM_DECB_IGND_4 (description="DM_DECB_IGND_4 [eng, mA]", quantity="none")
<i>LongId</i>	DM_DET_SIM_PER (description="DM_DET_SIM_PER [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_IGND_3 (description="DM_DECB_IGND_3 [eng, mA]", quantity="none")
<i>StringId</i>	DM_BC_ERR_NS (description="DM_BC_ERR_NS", quantity="none")
<i>StringId</i>	DM_GC_POWER (description="DM_GC_POWER", quantity="none")
<i>DoubleId</i>	DM_DECR_IGND_2 (description="DM_DECR_IGND_2 [eng, mA]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_SP (description="BOL_TEMP_SP [eng, K]", quantity="none")
<i>StringId</i>	DP_SPUS_HK (description="DP_SPUS_HK", quantity="none")
<i>StringId</i>	DM_CC_POWER (description="DM_CC_POWER", quantity="none")
<i>DoubleId</i>	DM_DECB_TS_2_3 (description="DM_DECB_TS_2_3 [eng, K]", quantity="none")
<i>StringId</i>	DM_CR2_ST_TE (description="DM_CR2_ST_TE", quantity="none")
<i>StringId</i>	DM_HKCO_TASK_AL (description="DM_HKCO_TASK_AL", quantity="none")
<i>LongId</i>	HD_PACKET_TYPE (description="HD_PACKET_TYPE [raw]", quantity="none")
<i>LongId</i>	SPS_MEM_CNTS (description="SPS_MEM_CNTS [raw]", quantity="none")
<i>LongId</i>	DM_DECR_SR_RB_1 (description="DM_DECR_SR_RB_1 [raw]", quantity="none")
<i>LongId</i>	DM_CHOP_PID_ACC (description="DM_CHOP_PID_ACC [raw]", quantity="none")
<i>LongId</i>	DM_DECR_SR_RB_2 (description="DM_DECR_SR_RB_2 [raw]", quantity="none")
<i>StringId</i>	DM_BSPU_TR_MODE (description="DM_BSPU_TR_MODE", quantity="none")

<i>StringId</i>	DM_FPU_GR_TS_ST (description="DM_FPU_GR_TS_ST", quantity="none")
<i>StringId</i>	DM_BC_TASK_AL (description="DM_BC_TASK_AL", quantity="none")
<i>DoubleId</i>	DM_DECB_TS_2_4 (description="DM_DECB_TS_2_4 [eng, K]", quantity="none")
<i>DoubleId</i>	DM_DECR_AC_CUR (description="DM_DECR_AC_CUR [eng, mA]", quantity="none")
<i>LongId</i>	SPL_OBSID (description="SPL_OBSID [raw]", quantity="none")
<i>StringId</i>	DM_BC_LINK (description="DM_BC_LINK", quantity="none")
<i>LongId</i>	DM_BR_ERROR (description="DM_BR_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_CR1_NDS (description="DM_CR1_NDS", quantity="none")
<i>DoubleId</i>	DM_DECB_VSCP_3 (description="DM_DECB_VSCP_3 [eng, V]", quantity="none")
<i>LongId</i>	DM_DECR_RO_CO_2 (description="DM_DECR_RO_CO_2 [raw]", quantity="none")
<i>StringId</i>	DM_SW_ALIVE (description="DM_SW_ALIVE", quantity="none")
<i>StringId</i>	DM_SEQ_RUNNING (description="DM_SEQ_RUNNING", quantity="none")
<i>StringId</i>	DM_FWPC_POS_A (description="DM_FWPC_POS_A", quantity="none")
<i>DoubleId</i>	DM_DECB_VSCP_4 (description="DM_DECB_VSCP_4 [eng, V]", quantity="none")
<i>LongId</i>	DM_DECR_RO_CO_1 (description="DM_DECR_RO_CO_1 [raw]", quantity="none")
<i>StringId</i>	DM_FWPC_POS_B (description="DM_FWPC_POS_B", quantity="none")
<i>LongId</i>	DM_CC_SPARE4 (description="DM_CC_SPARE4 [raw]", quantity="none")
<i>DoubleId</i>	LAST_16BIT_TIME (description="LAST_16BIT_TIME [eng, s]", quantity="none")
<i>StringId</i>	DM_DRR_TASK_WR (description="DM_DRR_TASK_WR", quantity="none")
<i>StringId</i>	DM_DBR_TASK_AL (description="DM_DBR_TASK_AL", quantity="none")
<i>LongId</i>	DP_GEN_TM_LOST (description="DP_GEN_TM_LOST [raw]", quantity="none")
<i>StringId</i>	DM_FWPC_POWER (description="DM_FWPC_POWER", quantity="none")
<i>DoubleId</i>	DM_DECR_BR_CM_1 (description="DM_DECR_BR_CM_1 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_BR_CM_2 (description="DM_DECR_BR_CM_2 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_IGND_1 (description="DM_DECR_IGND_1 [eng, mA]", quantity="none")
<i>StringId</i>	DM_GC_DOWN (description="DM_GC_DOWN", quantity="none")

<i>DoubleId</i>	DM_DECR_VSCP_1 (description="DM_DECR_VSCP_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_DRR_ERROR (description="DM_DRR_ERROR [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_VDDD_4 (description="DM_DECB_VDDD_4 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_VSCP_2 (description="DM_DECR_VSCP_2 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECB_VDDD_3 (description="DM_DECB_VDDD_3 [eng, V]", quantity="none")
<i>LongId</i>	DM_FWPC_SPARE4 (description="DM_FWPC_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_RA_CO_3 (description="DM_DECB_RA_CO_3 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_RA_CO_4 (description="DM_DECB_RA_CO_4 [raw]", quantity="none")
<i>LongId</i>	DM_PLL_RES_HI (description="DM_PLL_RES_HI [raw]", quantity="none")
<i>LongId</i>	DM_BR_SPARE2 (description="DM_BR_SPARE2 [raw]", quantity="none")
<i>StringId</i>	DM_SEQ_OPTIONS (description="DM_SEQ_OPTIONS", quantity="none")
<i>LongId</i>	DP_COM_SPL_PACK (description="DP_COM_SPL_PACK [raw]", quantity="none")
<i>StringId</i>	DM_DBC_LINK (description="DM_DBC_LINK", quantity="none")
<i>DoubleId</i>	DM_DECB_V0BIAS3 (description="DM_DECB_V0BIAS3 [eng, V]", quantity="none")
<i>StringId</i>	DM_CR4_ST_SEL (description="DM_CR4_ST_SEL", quantity="none")
<i>StringId</i>	DM_CR4_ST_CRPOW (description="DM_CR4_ST_CRPOW", quantity="none")
<i>DoubleId</i>	DM_DECR_VDDD_2 (description="DM_DECR_VDDD_2 [eng, V]", quantity="none")
<i>StringId</i>	DM_CR1_ST_FL (description="DM_CR1_ST_FL", quantity="none")
<i>DoubleId</i>	DM_DECB_V0BIAS4 (description="DM_DECB_V0BIAS4 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_VDDD_1 (description="DM_DECR_VDDD_1 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_V0V_2 (description="DM_DECR_V0V_2 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_V0V_1 (description="DM_DECR_V0V_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_DPUS_ERROR (description="DM_DPUS_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_HKD_TASK_WR (description="DM_HKD_TASK_WR", quantity="none")

<i>LongId</i>	DM_DECB_CTRL_PA (description="DM_DECB_CTRL_PA [raw]", quantity="none")
<i>LongId</i>	SPL_SUBVERSION (description="SPL_SUBVERSION [raw]", quantity="none")
<i>LongId</i>	DM_BOL_READ_CNT (description="DM_BOL_READ_CNT [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_FLASH_V (description="DM_DECR_FLASH_V [eng, V]", quantity="none")
<i>StringId</i>	DM_HKCO_ERR_NS (description="DM_HKCO_ERR_NS", quantity="none")
<i>LongId</i>	FIRST32BIT_TIME (description="FIRST32BIT_TIME [raw]", quantity="none")
<i>StringId</i>	DM_HKD_DIAGMODE (description="DM_HKD_DIAGMODE", quantity="none")
<i>StringId</i>	DP_1553_HANDLER (description="DP_1553_HANDLER", quantity="none")
<i>StringId</i>	DM_DRC_TASK_AL (description="DM_DRC_TASK_AL", quantity="none")
<i>LongId</i>	DM_SEQ_LOOP_ID4 (description="DM_SEQ_LOOP_ID4 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF12 (description="DM_LAST_ER_BF12 [raw]", quantity="none")
<i>StringId</i>	DM_FWPC_TASK_WR (description="DM_FWPC_TASK_WR", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF13 (description="DM_LAST_ER_BF13 [raw]", quantity="none")
<i>LongId</i>	DM_FWGRAT_HALLA (description="DM_FWGRAT_HALLA [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF14 (description="DM_LAST_ER_BF14 [raw]", quantity="none")
<i>LongId</i>	DM_FWGRAT_HALLB (description="DM_FWGRAT_HALLB [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF15 (description="DM_LAST_ER_BF15 [raw]", quantity="none")
<i>LongId</i>	DM_SEQ_LOOP_ID0 (description="DM_SEQ_LOOP_ID0 [raw]", quantity="none")
<i>LongId</i>	DM_SEQ_LOOP_ID1 (description="DM_SEQ_LOOP_ID1 [raw]", quantity="none")
<i>LongId</i>	SPL_SAMP_CORR (description="SPL_SAMP_CORR [raw]", quantity="none")
<i>LongId</i>	DM_SEQ_LOOP_ID2 (description="DM_SEQ_LOOP_ID2 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF10 (description="DM_LAST_ER_BF10 [raw]", quantity="none")
<i>StringId</i>	DM_CR4_ST_HE (description="DM_CR4_ST_HE", quantity="none")
<i>LongId</i>	DM_SEQ_LOOP_ID3 (description="DM_SEQ_LOOP_ID3 [raw]", quantity="none")

<i>LongId</i>	DM_LAST_ER_BF11 (description="DM_LAST_ER_BF11 [raw]", quantity="none")
<i>StringId</i>	DM_TS_2_ST_3 (description="DM_TS_2_ST_3", quantity="none")
<i>LongId</i>	DM_GRAT_PID_ACC (description="DM_GRAT_PID_ACC [raw]", quantity="none")
<i>StringId</i>	DM_TS_2_ST_4 (description="DM_TS_2_ST_4", quantity="none")
<i>StringId</i>	DM_CC_TASK_WR (description="DM_CC_TASK_WR", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF16 (description="DM_LAST_ER_BF16 [raw]", quantity="none")
<i>StringId</i>	DM_TS_2_ST_1 (description="DM_TS_2_ST_1", quantity="none")
<i>StringId</i>	DM_TS_2_ST_2 (description="DM_TS_2_ST_2", quantity="none")
<i>StringId</i>	DM_GC_PID (description="DM_GC_PID", quantity="none")
<i>StringId</i>	DM_CR1_ST_HE (description="DM_CR1_ST_HE", quantity="none")
<i>DoubleId</i>	DM_SPU_PS_TEMP (description="DM_SPU_PS_TEMP [eng, K]", quantity="none")
<i>LongId</i>	DP_COM_DMC (description="DP_COM_DMC [raw]", quantity="none")
<i>StringId</i>	DP_OBCP_RUN (description="DP_OBCP_RUN", quantity="none")
<i>StringId</i>	DP_IRQ3_TASK (description="DP_IRQ3_TASK", quantity="none")
<i>DoubleId</i>	DM_FPU_T2_TEMP (description="DM_FPU_T2_TEMP [eng, K]", quantity="none")
<i>DoubleId</i>	DM_DECB_VWELL_4 (description="DM_DECB_VWELL_4 [eng, V]", quantity="none")
<i>LongId</i>	SID (description="SID [raw]", quantity="none")
<i>LongId</i>	SPS_PIX (description="SPS_PIX [raw]", quantity="none")
<i>LongId</i>	DM_FWSC_SPARE4 (description="DM_FWSC_SPARE4 [raw]", quantity="none")
<i>StringId</i>	DM_TS_1_ST_4 (description="DM_TS_1_ST_4", quantity="none")
<i>StringId</i>	DM_BPE_TASK_AL (description="DM_BPE_TASK_AL", quantity="none")
<i>StringId</i>	DM_TS_1_ST_3 (description="DM_TS_1_ST_3", quantity="none")
<i>StringId</i>	DM_CR3_ST_SIM (description="DM_CR3_ST_SIM", quantity="none")
<i>StringId</i>	DM_TS_1_ST_2 (description="DM_TS_1_ST_2", quantity="none")
<i>StringId</i>	DM_FPU_CH_TS_ST (description="DM_FPU_CH_TS_ST", quantity="none")
<i>DoubleId</i>	DM_DECB_VWELL_3 (description="DM_DECB_VWELL_3 [eng, V]", quantity="none")
<i>StringId</i>	DM_TS_1_ST_1 (description="DM_TS_1_ST_1", quantity="none")
<i>StringId</i>	DM_DSIM_TIME (description="DM_DSIM_TIME", quantity="none")
<i>StringId</i>	DM_DBR_ERR_NS (description="DM_DBR_ERR_NS", quantity="none")

<i>StringId</i>	SPS_DMC_LINK (description="SPS_DMC_LINK", quantity="none")
<i>LongId</i>	DM_DET_SIM_STAT (description="DM_DET_SIM_STAT [raw]", quantity="none")
<i>LongId</i>	DP_COM_DMC_PACK (description="DP_COM_DMC_PACK [raw]", quantity="none")
<i>LongId</i>	DM_DECR_CTRL_PA (description="DM_DECR_CTRL_PA [raw]", quantity="none")
<i>StringId</i>	DM_CR4_ST_FL (description="DM_CR4_ST_FL", quantity="none")
<i>StringId</i>	DM_CR2_NDS (description="DM_CR2_NDS", quantity="none")
<i>DoubleId</i>	DM_DECR_TS_1_2 (description="DM_DECR_TS_1_2 [eng, K]", quantity="none")
<i>DoubleId</i>	DM_DECR_TS_1_1 (description="DM_DECR_TS_1_1 [eng, K]", quantity="none")
<i>LongId</i>	HD_APID (description="HD_APID [raw]", quantity="none")
<i>LongId</i>	DM_DSIM_SPARE7 (description="DM_DSIM_SPARE7 [raw]", quantity="none")
<i>StringId</i>	DP_STABLE_DEC (description="DP_STABLE_DEC", quantity="none")
<i>DoubleId</i>	DM_DECB_VSS_3 (description="DM_DECB_VSS_3 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECB_VSS_4 (description="DM_DECB_VSS_4 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_VWELL_2 (description="DM_DECR_VWELL_2 [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ERR_ID (description="DM_LAST_ERR_ID [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_VWELL_1 (description="DM_DECR_VWELL_1 [eng, V]", quantity="none")
<i>StringId</i>	DM_CR3_ST_CRPOW (description="DM_CR3_ST_CRPOW", quantity="none")
<i>LongId</i>	SPS_LLC_ERROR (description="SPS_LLC_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_RED_ENC_PAC (description="DM_RED_ENC_PAC [raw]", quantity="none")
<i>StringId</i>	DM_CS2C_DOWN (description="DM_CS2C_DOWN", quantity="none")
<i>StringId</i>	DP_SPL_LINK (description="DP_SPL_LINK", quantity="none")
<i>LongId</i>	DM_IRS_CNT (description="DM_IRS_CNT [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_TS_1_4 (description="DM_DECB_TS_1_4 [eng, K]", quantity="none")
<i>LongId</i>	DM_SW_SPARE5 (description="DM_SW_SPARE5 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_TS_1_3 (description="DM_DECB_TS_1_3 [eng, K]", quantity="none")

<i>LongId</i>	DP_COM_SPS_NACK (description="DP_COM_SPS_NACK [raw]", quantity="none")
<i>StringId</i>	DM_BR_TASK_WR (description="DM_BR_TASK_WR", quantity="none")
<i>StringId</i>	DM_DBR_SENDING (description="DM_DBR_SENDING", quantity="none")
<i>LongId</i>	DP_COM_SPUS (description="DP_COM_SPUS [raw]", quantity="none")
<i>StringId</i>	DM_CS1C_POWER (description="DM_CS1C_POWER", quantity="none")
<i>StringId</i>	DM_DPUR_TASK_WR (description="DM_DPUR_TASK_WR", quantity="none")
<i>LongId</i>	DP_COM_SPUL (description="DP_COM_SPUL [raw]", quantity="none")
<i>StringId</i>	DM_GC_SYNCHRO (description="DM_GC_SYNCHRO", quantity="none")
<i>StringId</i>	DM_SEQ_TASK_AL (description="DM_SEQ_TASK_AL", quantity="none")
<i>DoubleId</i>	BOL_TEMP_SP_SWT (description="BOL_TEMP_SP_SWT [eng, K]", quantity="none")
<i>LongId</i>	DM_SEQ_STATUS (description="DM_SEQ_STATUS [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_ISS_1 (description="DM_DECR_ISS_1 [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECR_ISS_2 (description="DM_DECR_ISS_2 [eng, mA]", quantity="none")
<i>LongId</i>	DM_FW_PHOT_CTRL (description="DM_FW_PHOT_CTRL [raw]", quantity="none")
<i>StringId</i>	DM_CC_PID (description="DM_CC_PID", quantity="none")
<i>StringId</i>	DM_GC_DEGRADE (description="DM_GC_DEGRADE", quantity="none")
<i>StringId</i>	DM_CS1C_DOWN (description="DM_CS1C_DOWN", quantity="none")
<i>StringId</i>	DP_COUNTER_SPS (description="DP_COUNTER_SPS", quantity="none")
<i>StringId</i>	DM_BR_TASK_AL (description="DM_BR_TASK_AL", quantity="none")
<i>LongId</i>	DM_GC_LL_SC (description="DM_GC_LL_SC [raw]", quantity="none")
<i>LongId</i>	DM_DPUR_SPARE4 (description="DM_DPUR_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DP_COM_REC_DPU (description="DP_COM_REC_DPU [raw]", quantity="none")
<i>StringId</i>	DM_DPUS_TASK_WR (description="DM_DPUS_TASK_WR", quantity="none")
<i>StringId</i>	DM_SEQ_IDLE (description="DM_SEQ_IDLE", quantity="none")
<i>LongId</i>	DM_FPU_T_SEN_ST (description="DM_FPU_T_SEN_ST [raw]", quantity="none")

<i>StringId</i>	DM_HKD_TASK_AL (description="DM_HKD_TASK_AL", quantity="none")
<i>LongId</i>	DM_BOL_CTRL_STA (description="DM_BOL_CTRL_STA [raw]", quantity="none")
<i>LongId</i>	DM_CR2_ST_SP1 (description="DM_CR2_ST_SP1 [raw]", quantity="none")
<i>LongId</i>	DM_CR2_ST_SP2 (description="DM_CR2_ST_SP2 [raw]", quantity="none")
<i>StringId</i>	DM_CR3_ST_POW (description="DM_CR3_ST_POW", quantity="none")
<i>StringId</i>	DM_CS2C_POWER (description="DM_CS2C_POWER", quantity="none")
<i>LongId</i>	DM_SEQ_POINTER (description="DM_SEQ_POINTER [raw]", quantity="none")
<i>LongId</i>	DM_DPU_SEN_STAT (description="DM_DPU_SEN_STAT [raw]", quantity="none")
<i>StringId</i>	DM_CR1_ST_POW (description="DM_CR1_ST_POW", quantity="none")
<i>LongId</i>	DM_CR4_ST_SP1 (description="DM_CR4_ST_SP1 [raw]", quantity="none")
<i>LongId</i>	DM_CR4_ST_SP2 (description="DM_CR4_ST_SP2 [raw]", quantity="none")
<i>LongId</i>	DM_SW_GLOBAL_ST (description="DM_SW_GLOBAL_ST [raw]", quantity="none")
<i>DoubleId</i>	DP_T (description="DP_T [eng, degC]", quantity="none")
<i>LongId</i>	DM_DECB_REC_PAC (description="DM_DECB_REC_PAC [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_6 (description="BOL_PWR_ANA_P_6 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_7 (description="BOL_PWR_ANA_P_7 [eng, V]", quantity="none")
<i>StringId</i>	DP_BURST_MODE (description="DP_BURST_MODE", quantity="none")
<i>StringId</i>	DM_FPU_S2_TS_ST (description="DM_FPU_S2_TS_ST", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_2 (description="BOL_PWR_ANA_P_2 [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF5 (description="DM_LAST_ER_BF5 [raw]", quantity="none")
<i>LongId</i>	SPS_SUBVERSION (description="SPS_SUBVERSION [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF6 (description="DM_LAST_ER_BF6 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_3 (description="BOL_PWR_ANA_P_3 [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF3 (description="DM_LAST_ER_BF3 [raw]", quantity="none")

<i>DoubleId</i>	BOL_PWR_ANA_P_4 (description="BOL_PWR_ANA_P_4 [eng, V]", quantity="none")
<i>StringId</i>	DM_CR3_ST_CUR (description="DM_CR3_ST_CUR", quantity="none")
<i>LongId</i>	SPL_PIX (description="SPL_PIX [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF4 (description="DM_LAST_ER_BF4 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_5 (description="BOL_PWR_ANA_P_5 [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF9 (description="DM_LAST_ER_BF9 [raw]", quantity="none")
<i>LongId</i>	DM_BOL_REC_STAT (description="DM_BOL_REC_STAT [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF7 (description="DM_LAST_ER_BF7 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_1 (description="BOL_PWR_ANA_P_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF8 (description="DM_LAST_ER_BF8 [raw]", quantity="none")
<i>StringId</i>	DM_DSIM_BOL_SIM (description="DM_DSIM_BOL_SIM", quantity="none")
<i>LongId</i>	SPL_MAINT_RAMPS (description="SPL_MAINT_RAMPS [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_ISS_3 (description="DM_DECB_ISS_3 [eng, mA]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF1 (description="DM_LAST_ER_BF1 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_ISS_4 (description="DM_DECB_ISS_4 [eng, mA]", quantity="none")
<i>StringId</i>	DP_EV_BOL_BIAS (description="DP_EV_BOL_BIAS", quantity="none")
<i>LongId</i>	DM_HK_DIAG_STAT (description="DM_HK_DIAG_STAT [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF2 (description="DM_LAST_ER_BF2 [raw]", quantity="none")
<i>StringId</i>	DM_CC_UP (description="DM_CC_UP", quantity="none")
<i>StringId</i>	DP_EVENT_DEC (description="DP_EVENT_DEC", quantity="none")
<i>LongId</i>	DM_DPUR_ERROR (description="DM_DPUR_ERROR [raw]", quantity="none")
<i>StringId</i>	DP_SPS_LINK (description="DP_SPS_LINK", quantity="none")
<i>LongId</i>	DM_FWPC_SPARE1A (description="DM_FWPC_SPARE1A [raw]", quantity="none")
<i>LongId</i>	DM_FWPC_SPARE1B (description="DM_FWPC_SPARE1B [raw]", quantity="none")
<i>StringId</i>	DM_CR3_NDS (description="DM_CR3_NDS", quantity="none")
<i>StringId</i>	DM_GC_COMMUT (description="DM_GC_COMMUT", quantity="none")

<i>LongId</i>	DM_GRAT_CUR_POS (description="DM_GRAT_CUR_POS [raw]", quantity="none")
<i>StringId</i>	DM_RPE_ERR_NS (description="DM_RPE_ERR_NS", quantity="none")
<i>LongId</i>	DM_OBSID (description="DM_OBSID [raw]", quantity="none")
<i>StringId</i>	DM_CR4_ST_TE (description="DM_CR4_ST_TE", quantity="none")
<i>DoubleId</i>	DM_DECR_HEAT_C (description="DM_DECR_HEAT_C [eng, mA]", quantity="none")
<i>LongId</i>	DM_ISR_SPARE1 (description="DM_ISR_SPARE1 [raw]", quantity="none")
<i>StringId</i>	DM_FWPC_POSC_A (description="DM_FWPC_POSC_A", quantity="none")
<i>StringId</i>	DM_FWPC_POSC_B (description="DM_FWPC_POSC_B", quantity="none")
<i>LongId</i>	DM_ISR_SPARE2 (description="DM_ISR_SPARE2 [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_T_WE (description="DP_EV_BOL_T_WE", quantity="none")
<i>StringId</i>	DM_DRC_TASK_WR (description="DM_DRC_TASK_WR", quantity="none")
<i>DoubleId</i>	DM_DECR_FLASH_C (description="DM_DECR_FLASH_C [eng, mA]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_5 (description="BOL_PWR_DIG_5 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_6 (description="BOL_PWR_DIG_6 [eng, V]", quantity="none")
<i>StringId</i>	DM_DPUS_LINK (description="DM_DPUS_LINK", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_7 (description="BOL_PWR_DIG_7 [eng, V]", quantity="none")
<i>LongId</i>	DM_BC_SPARE4 (description="DM_BC_SPARE4 [raw]", quantity="none")
<i>StringId</i>	DM_FWPC_ERR_NS (description="DM_FWPC_ERR_NS", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_1 (description="BOL_PWR_DIG_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_2 (description="BOL_PWR_DIG_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_3 (description="BOL_PWR_DIG_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_4 (description="BOL_PWR_DIG_4 [eng, V]", quantity="none")
<i>StringId</i>	DM_DBR_SIM_TIME (description="DM_DBR_SIM_TIME", quantity="none")
<i>StringId</i>	DM_CR3_ST_TE (description="DM_CR3_ST_TE", quantity="none")

<i>StringId</i>	DP_EV_BOL_I_RO (description="DP_EV_BOL_I_RO", quantity="none")
<i>StringId</i>	DM_CS1C_TASK_AL (description="DM_CS1C_TASK_AL", quantity="none")
<i>DoubleId</i>	DM_DECR_HEAT_V (description="DM_DECR_HEAT_V [eng, V]", quantity="none")
<i>StringId</i>	DM_SW_COPY_OBS (description="DM_SW_COPY_OBS", quantity="none")
<i>LongId</i>	SPS_SAMP_CORR (description="SPS_SAMP_CORR [raw]", quantity="none")
<i>StringId</i>	DM_SW_ERR (description="DM_SW_ERR", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU_ST (description="BOL_TEMP_FPU_ST [eng, K]", quantity="none")
<i>StringId</i>	DM_CR1_ST_RA (description="DM_CR1_ST_RA", quantity="none")
<i>StringId</i>	DM_BR_SENDING (description="DM_BR_SENDING", quantity="none")
<i>StringId</i>	DM_DSIM_R_SIMUL (description="DM_DSIM_R_SIMUL", quantity="none")
<i>DoubleId</i>	DP_VOL_15P (description="DP_VOL_15P [eng, V]", quantity="none")
<i>StringId</i>	DM_FPU_CS_TS_ST (description="DM_FPU_CS_TS_ST", quantity="none")
<i>DoubleId</i>	DM_FW_SPEC_TEMP (description="DM_FW_SPEC_TEMP [eng, K]", quantity="none")
<i>DoubleId</i>	DP_VOL_15N (description="DP_VOL_15N [eng, V]", quantity="none")
<i>StringId</i>	DM_BR_LINK (description="DM_BR_LINK", quantity="none")
<i>StringId</i>	DM_HKCO_TASK_WR (description="DM_HKCO_TASK_WR", quantity="none")
<i>LongId</i>	SPS_CI (description="SPS_CI [raw]", quantity="none")
<i>StringId</i>	DM_CR4_ST_RA (description="DM_CR4_ST_RA", quantity="none")
<i>DoubleId</i>	DM_DECR_DCDCP15 (description="DM_DECR_DCDCP15 [eng, mA]", quantity="none")
<i>LongId</i>	DM_ISR_STAT (description="DM_ISR_STAT [raw]", quantity="none")
<i>LongId</i>	HD_LENGTH (description="HD_LENGTH [raw]", quantity="none")
<i>LongId</i>	DP_COM_SPS_PACK (description="DP_COM_SPS_PACK [raw]", quantity="none")
<i>LongId</i>	DP_1_8_REJECTED (description="DP_1_8_REJECTED [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_ZB_CM_1 (description="DM_DECR_ZB_CM_1 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_ZB_CM_2 (description="DM_DECR_ZB_CM_2 [eng, V]", quantity="none")
<i>LongId</i>	DM_FWSC_SPARE1A (description="DM_FWSC_SPARE1A [raw]", quantity="none")

<i>LongId</i>	DM_CS2C_ERROR (description="DM_CS2C_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_CR1_ST_CRPOW (description="DM_CR1_ST_CRPOW", quantity="none")
<i>LongId</i>	DM_SEQ_ERROR (description="DM_SEQ_ERROR [raw]", quantity="none")
<i>StringId</i>	DP_1355_LINK (description="DP_1355_LINK", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU1 (description="BOL_TEMP_FPU1 [eng, K]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU2 (description="BOL_TEMP_FPU2 [eng, K]", quantity="none")
<i>LongId</i>	DM_DECR_RA_CO_1 (description="DM_DECR_RA_CO_1 [raw]", quantity="none")
<i>LongId</i>	SPS_PAR_MONITOR (description="SPS_PAR_MONITOR [raw]", quantity="none")
<i>LongId</i>	DM_GRAT_PID_ERR (description="DM_GRAT_PID_ERR [raw]", quantity="none")
<i>LongId</i>	DP_1_2_REJECTED (description="DP_1_2_REJECTED [raw]", quantity="none")
<i>LongId</i>	DM_DECR_RA_CO_2 (description="DM_DECR_RA_CO_2 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_VGND_2 (description="DM_DECR_VGND_2 [eng, V]", quantity="none")
<i>StringId</i>	DM_BPE_TASK_WR (description="DM_BPE_TASK_WR", quantity="none")
<i>DoubleId</i>	DM_DECB_FLASH_V (description="DM_DECB_FLASH_V [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_VGND_1 (description="DM_DECR_VGND_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_FWPC_ERROR (description="DM_FWPC_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_CR2_ST_CUR (description="DM_CR2_ST_CUR", quantity="none")
<i>DoubleId</i>	DM_GRAT_OUTPUT (description="DM_GRAT_OUTPUT [eng, mA]", quantity="none")
<i>LongId</i>	DM_GRAT_CTRL_ST (description="DM_GRAT_CTRL_ST [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_4 (description="BOL_PWR_ANA_N_4 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_5 (description="BOL_PWR_ANA_N_5 [eng, V]", quantity="none")
<i>LongId</i>	DM_SW_ERROR (description="DM_SW_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_DECB_SR_RB_3 (description="DM_DECB_SR_RB_3 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_6 (description="BOL_PWR_ANA_N_6 [eng, V]", quantity="none")

<i>LongId</i>	DM_CUSTOM_ENT10 (description="DM_CUSTOM_ENT10 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_7 (description="BOL_PWR_ANA_N_7 [eng, V]", quantity="none")
<i>StringId</i>	DM_CR3_ST_RA (description="DM_CR3_ST_RA", quantity="none")
<i>LongId</i>	DM_DECB_SR_RB_4 (description="DM_DECB_SR_RB_4 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_1 (description="BOL_PWR_ANA_N_1 [eng, V]", quantity="none")
<i>StringId</i>	SPL_DMC_ERROR (description="SPL_DMC_ERROR", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_2 (description="BOL_PWR_ANA_N_2 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_SPU_SWL_TEMP (description="DM_SPU_SWL_TEMP [eng, K]", quantity="none")
<i>LongId</i>	DM_HK_DIAG_PERI (description="DM_HK_DIAG_PERI [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_3 (description="BOL_PWR_ANA_N_3 [eng, V]", quantity="none")
<i>StringId</i>	DM_CR4_NDS (description="DM_CR4_NDS", quantity="none")
<i>LongId</i>	DM_FWSC_SPARE1B (description="DM_FWSC_SPARE1B [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_FLASH_C (description="DM_DECB_FLASH_C [eng, mA]", quantity="none")
<i>StringId</i>	DM_CR1_ST_TE (description="DM_CR1_ST_TE", quantity="none")
<i>DoubleId</i>	DP_VOL_25P (description="DP_VOL_25P [eng, V]", quantity="none")
<i>DoubleId</i>	SPL_CPUWORKLOAD (description="SPL_CPUWORKLOAD [eng, %]", quantity="none")
<i>StringId</i>	DP_SPUS_LINK (description="DP_SPUS_LINK", quantity="none")
<i>LongId</i>	DM_SEQ_SPARE2 (description="DM_SEQ_SPARE2 [raw]", quantity="none")
<i>DoubleId</i>	DP_VOL_5P (description="DP_VOL_5P [eng, V]", quantity="none")
<i>LongId</i>	DM_DPU_REC_PAC (description="DM_DPU_REC_PAC [raw]", quantity="none")
<i>StringId</i>	DP_COUNTER_SPL (description="DP_COUNTER_SPL", quantity="none")
<i>LongId</i>	DM_SEQ_SPARE1 (description="DM_SEQ_SPARE1 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_DCDC_P5 (description="DM_DECB_DCDC_P5 [eng, mA]", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_HEA (description="DP_EV_BOL_I_HEA", quantity="none")
<i>StringId</i>	DM_CR2_ST_RA (description="DM_CR2_ST_RA", quantity="none")

<i>DoubleId</i>	DM_DECR_IDDA_1 (description="DM_DECR_IDDA_1 [eng, mA]", quantity="none")
<i>StringId</i>	DP_COUNTER_PHOT (description="DP_COUNTER_PHOT", quantity="none")
<i>LongId</i>	DM_CR3_ST_SP2 (description="DM_CR3_ST_SP2 [raw]", quantity="none")
<i>StringId</i>	DM_DSIM_ERR_NS (description="DM_DSIM_ERR_NS", quantity="none")
<i>StringId</i>	DM_CR4_ST_SIM (description="DM_CR4_ST_SIM", quantity="none")
<i>StringId</i>	DM_CR2_ST_POW (description="DM_CR2_ST_POW", quantity="none")
<i>LongId</i>	DM_DECR_REC_PAC (description="DM_DECR_REC_PAC [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_IDDA_3 (description="DM_DECB_IDDA_3 [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECB_DCDCP15 (description="DM_DECB_DCDCP15 [eng, mA]", quantity="none")
<i>LongId</i>	DP_SPUS_LINK_DE (description="DP_SPUS_LINK_DE [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_IDDA_4 (description="DM_DECB_IDDA_4 [eng, mA]", quantity="none")
<i>StringId</i>	DM_CC_LOOP (description="DM_CC_LOOP", quantity="none")
<i>DoubleId</i>	DM_DECR_IDDA_2 (description="DM_DECR_IDDA_2 [eng, mA]", quantity="none")
<i>LongId</i>	SPS_RCX (description="SPS_RCX [raw]", quantity="none")
<i>LongId</i>	DM_BC_ERROR (description="DM_BC_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_DSIM_TASK_AL (description="DM_DSIM_TASK_AL", quantity="none")
<i>LongId</i>	DM_DECB_RO_CO_4 (description="DM_DECB_RO_CO_4 [raw]", quantity="none")
<i>LongId</i>	DM_CR3_ST_SP1 (description="DM_CR3_ST_SP1 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_RO_CO_3 (description="DM_DECB_RO_CO_3 [raw]", quantity="none")
<i>DoubleId</i>	DM_CAL_SRC_TEMP (description="DM_CAL_SRC_TEMP [eng, K]", quantity="none")
<i>DoubleId</i>	DM_CS1_OUTPUT (description="DM_CS1_OUTPUT [eng, V]", quantity="none")
<i>StringId</i>	DM_DRR_SENDING (description="DM_DRR_SENDING", quantity="none")
<i>StringId</i>	DM_DRC_LINK (description="DM_DRC_LINK", quantity="none")
<i>StringId</i>	DP_SPUL_CMD (description="DP_SPUL_CMD", quantity="none")
<i>LongId</i>	DM_BLUE_PAC_ENC (description="DM_BLUE_PAC_ENC [raw]", quantity="none")
<i>LongId</i>	SPL_RCX (description="SPL_RCX [raw]", quantity="none")

<i>LongId</i>	DM_HK_CTRL_STAT (description="DM_HK_CTRL_STAT [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_T_FPU (description="DP_EV_BOL_T_FPU", quantity="none")
<i>LongId</i>	DM_PM_DF_IND (description="DM_PM_DF_IND [raw]", quantity="none")
<i>LongId</i>	DM_HKCO_ERROR (description="DM_HKCO_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_DECR_DCDC_T2 (description="DM_DECR_DCDC_T2 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_VGND_3 (description="DM_DECB_VGND_3 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_DCDC_T1 (description="DM_DECR_DCDC_T1 [eng, K]", quantity="none")
<i>DoubleId</i>	DM_DECB_VGND_4 (description="DM_DECB_VGND_4 [eng, V]", quantity="none")
<i>StringId</i>	DM_CS2C_PID (description="DM_CS2C_PID", quantity="none")
<i>LongId</i>	DM_DPU_REC_STAT (description="DM_DPU_REC_STAT [raw]", quantity="none")
<i>StringId</i>	DP_OBCP_MANAGER (description="DP_OBCP_MANAGER", quantity="none")
<i>LongId</i>	HD_SPARE_3 (description="HD_SPARE_3 [raw]", quantity="none")
<i>StringId</i>	DP_DEC_LINK (description="DP_DEC_LINK", quantity="none")
<i>LongId</i>	SPL_LLC_ERROR (description="SPL_LLC_ERROR [raw]", quantity="none")
<i>LongId</i>	HD_VERSION_NUMB (description="HD_VERSION_NUMB [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_DCDCN15 (description="DM_DECR_DCDCN15 [eng, mA]", quantity="none")
<i>LongId</i>	DM_DBR_SPARE2 (description="DM_DBR_SPARE2 [raw]", quantity="none")
<i>LongId</i>	DM_GRAT_TARGET (description="DM_GRAT_TARGET [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_VSS_2 (description="DM_DECR_VSS_2 [eng, V]", quantity="none")
<i>LongId</i>	DM_HKCO_SPARE5 (description="DM_HKCO_SPARE5 [raw]", quantity="none")
<i>StringId</i>	DM_CR2_ST_CS (description="DM_CR2_ST_CS", quantity="none")
<i>LongId</i>	HD_SPARE_1 (description="HD_SPARE_1 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_CL_RO_4 (description="DM_DECB_CL_RO_4 [raw]", quantity="none")
<i>LongId</i>	HD_SPARE_2 (description="HD_SPARE_2 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_CL_RO_3 (description="DM_DECB_CL_RO_3 [raw]", quantity="none")
<i>LongId</i>	SPS_VID (description="SPS_VID [raw]", quantity="none")
<i>StringId</i>	DM_FWSC_TASK_WR (description="DM_FWSC_TASK_WR", quantity="none")

<i>DoubleId</i>	DM_DECR_VSS_1 (description="DM_DECR_VSS_1 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_IDDD_2 (description="DM_DECR_IDDD_2 [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECR_IDDD_1 (description="DM_DECR_IDDD_1 [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECB_IDDD_3 (description="DM_DECB_IDDD_3 [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECB_REF_0V4 (description="DM_DECB_REF_0V4 [eng, V]", quantity="none")
<i>LongId</i>	DM_OBT_COUNT (description="DM_OBT_COUNT [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_REF_0V3 (description="DM_DECB_REF_0V3 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECB_IDDD_4 (description="DM_DECB_IDDD_4 [eng, mA]", quantity="none")
<i>StringId</i>	DM_FPU_FWP_TS_S (description="DM_FPU_FWP_TS_S", quantity="none")
<i>StringId</i>	DP_SPUS_CMD (description="DP_SPUS_CMD", quantity="none")
<i>StringId</i>	DM_GC_LL_LOCKED (description="DM_GC_LL_LOCKED", quantity="none")
<i>LongId</i>	DM_DSIM_SPARE1A (description="DM_DSIM_SPARE1A [raw]", quantity="none")
<i>LongId</i>	DM_CS2_CTRL_STA (description="DM_CS2_CTRL_STA [raw]", quantity="none")
<i>DoubleId</i>	DM_DSP_TEMP (description="DM_DSP_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_BR_SIM_TIME (description="DM_BR_SIM_TIME", quantity="none")
<i>StringId</i>	DM_GC_LL_MOVING (description="DM_GC_LL_MOVING", quantity="none")
<i>LongId</i>	DM_DSIM_SPARE1B (description="DM_DSIM_SPARE1B [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_DCDCP5 (description="DM_DECR_DCDCP5 [eng, mA]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_4 (description="BOL_TEMP_R_4 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_5 (description="BOL_TEMP_R_5 [eng, degC]", quantity="none")
<i>LongId</i>	DM_MIM_ST (description="DM_MIM_ST [raw]", quantity="none")
<i>LongId</i>	DM_DSIM_ERROR (description="DM_DSIM_ERROR [raw]", quantity="none")
<i>StringId</i>	SPS_DMC_ERROR (description="SPS_DMC_ERROR", quantity="none")
<i>LongId</i>	DM_GC_ERROR (description="DM_GC_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_CC_ERROR (description="DM_CC_ERROR [raw]", quantity="none")

<i>StringId</i>	DP_SPUL_LINK (description="DP_SPUL_LINK", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_1 (description="BOL_TEMP_R_1 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_2 (description="BOL_TEMP_R_2 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_3 (description="BOL_TEMP_R_3 [eng, degC]", quantity="none")
<i>StringId</i>	DM_CS2C_UP (description="DM_CS2C_UP", quantity="none")
<i>StringId</i>	DM_CR4_ST_CUR (description="DM_CR4_ST_CUR", quantity="none")
<i>StringId</i>	DM_DSIM_TASK_WR (description="DM_DSIM_TASK_WR", quantity="none")
<i>StringId</i>	DM_DPUR_TASK_AL (description="DM_DPUR_TASK_AL", quantity="none")
<i>LongId</i>	SPS_REAL (description="SPS_REAL [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_B_3 (description="BOL_TEMP_B_3 [eng, degC]", quantity="none")
<i>LongId</i>	DM_CHOP_SETPOIN (description="DM_CHOP_SETPOIN [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_B_2 (description="BOL_TEMP_B_2 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_B_1 (description="BOL_TEMP_B_1 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_DAQ (description="BOL_TEMP_DAQ [eng, degC]", quantity="none")
<i>StringId</i>	DP_TEST_MODE (description="DP_TEST_MODE", quantity="none")
<i>LongId</i>	DM_DECR_CL_RO_1 (description="DM_DECR_CL_RO_1 [raw]", quantity="none")
<i>LongId</i>	DM_CHOP_CUR_POS (description="DM_CHOP_CUR_POS [raw]", quantity="none")
<i>LongId</i>	DM_DECR_CL_RO_2 (description="DM_DECR_CL_RO_2 [raw]", quantity="none")
<i>LongId</i>	DM_CS2C_SPARE1B (description="DM_CS2C_SPARE1B [raw]", quantity="none")
<i>StringId</i>	DM_RPE_TASK_AL (description="DM_RPE_TASK_AL", quantity="none")
<i>DoubleId</i>	DM_FW_PHOT_TEMP (description="DM_FW_PHOT_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DP_BLUE_SCIENCE (description="DP_BLUE_SCIENCE", quantity="none")
<i>StringId</i>	DP_UNIT (description="DP_UNIT", quantity="none")
<i>StringId</i>	DP_DMC_CMD (description="DP_DMC_CMD", quantity="none")
<i>LongId</i>	DM_DECB_DCDC_T4 (description="DM_DECB_DCDC_T4 [raw]", quantity="none")
<i>StringId</i>	DM_CC_COMMUT (description="DM_CC_COMMUT", quantity="none")
<i>LongId</i>	DM_TIME_2 (description="DM_TIME_2 [raw]", quantity="none")

<i>LongId</i>	DM_TIME_1 (description="DM_TIME_1 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_ZB_CM_4 (description="DM_DECB_ZB_CM_4 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECB_ZB_CM_3 (description="DM_DECB_ZB_CM_3 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECB_HEAT_V (description="DM_DECB_HEAT_V [eng, V]", quantity="none")
<i>LongId</i>	DM_CS1C_SPARE1 (description="DM_CS1C_SPARE1 [raw]", quantity="none")
<i>LongId</i>	DP_SPUS_LINK_PE (description="DP_SPUS_LINK_PE [raw]", quantity="none")
<i>LongId</i>	DM_CS1C_ERROR (description="DM_CS1C_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_CS1C_SPARE4 (description="DM_CS1C_SPARE4 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_DCDC_T3 (description="DM_DECB_DCDC_T3 [eng, K]", quantity="none")
<i>LongId</i>	DM_PM_SF_IND (description="DM_PM_SF_IND [raw]", quantity="none")
<i>LongId</i>	DM_BPE_ERROR (description="DM_BPE_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_GC_ERR_NS (description="DM_GC_ERR_NS", quantity="none")
<i>StringId</i>	DM_CS2C_TASK_WR (description="DM_CS2C_TASK_WR", quantity="none")
<i>StringId</i>	DM_CR4_ST_POW (description="DM_CR4_ST_POW", quantity="none")
<i>DoubleId</i>	BOL_TEMP_EV (description="BOL_TEMP_EV [eng, K]", quantity="none")
<i>DoubleId</i>	DM_DECB_DCDCN15 (description="DM_DECB_DCDCN15 [eng, mA]", quantity="none")
<i>StringId</i>	DM_CR2_ST_SIM (description="DM_CR2_ST_SIM", quantity="none")
<i>DoubleId</i>	DM_DECR_VCAN2_2 (description="DM_DECR_VCAN2_2 [eng, V]", quantity="none")
<i>StringId</i>	DM_DPUS_ERR_NS (description="DM_DPUS_ERR_NS", quantity="none")
<i>DoubleId</i>	DM_DECR_VCAN2_1 (description="DM_DECR_VCAN2_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_CR1_ST_SP2 (description="DM_CR1_ST_SP2 [raw]", quantity="none")
<i>StringId</i>	DM_FWPH_CUR_POS (description="DM_FWPH_CUR_POS", quantity="none")
<i>LongId</i>	DM_CR1_ST_SP1 (description="DM_CR1_ST_SP1 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_V0V_4 (description="DM_DECB_V0V_4 [eng, V]", quantity="none")

<i>StringId</i>	DP_STABLE_SPS (description="DP_STABLE_SPS", quantity="none")
<i>StringId</i>	DM_CS2C_SYNCHRO (description="DM_CS2C_SYNCHRO", quantity="none")
<i>StringId</i>	DM_CR2_ST_FL (description="DM_CR2_ST_FL", quantity="none")
<i>StringId</i>	DM_FWSC_MOVING (description="DM_FWSC_MOVING", quantity="none")
<i>DoubleId</i>	DM_DECB_HEAT_C (description="DM_DECB_HEAT_C [eng, mA]", quantity="none")
<i>LongId</i>	DM_CHOP_MAX_DIT (description="DM_CHOP_MAX_DIT [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_V0V_3 (description="DM_DECB_V0V_3 [eng, V]", quantity="none")
<i>StringId</i>	DM_ISR_SYNC_RES (description="DM_ISR_SYNC_RES", quantity="none")
<i>LongId</i>	DM_DECB_CR_ST_3 (description="DM_DECB_CR_ST_3 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_CR_ST_4 (description="DM_DECB_CR_ST_4 [raw]", quantity="none")
<i>LongId</i>	SPL_PAR_MONITOR (description="SPL_PAR_MONITOR [raw]", quantity="none")
<i>LongId</i>	DM_RPE_ERROR (description="DM_RPE_ERROR [raw]", quantity="none")
<i>DoubleId</i>	DM_PSC_V2 (description="DM_PSC_V2 [eng, mA]", quantity="none")
<i>StringId</i>	DM_GC_UP (description="DM_GC_UP", quantity="none")
<i>DoubleId</i>	DM_PSC_V1 (description="DM_PSC_V1 [eng, A]", quantity="none")
<i>DoubleId</i>	DM_PSC_V4 (description="DM_PSC_V4 [eng, A]", quantity="none")
<i>StringId</i>	DP_EEPROM_PROT (description="DP_EEPROM_PROT", quantity="none")
<i>DoubleId</i>	DM_PSC_V3 (description="DM_PSC_V3 [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECB_VCAN2_3 (description="DM_DECB_VCAN2_3 [eng, V]", quantity="none")
<i>StringId</i>	DM_HKD_ERR_NS (description="DM_HKD_ERR_NS", quantity="none")
<i>StringId</i>	DM_FWPC_SEARCHB (description="DM_FWPC_SEARCHB", quantity="none")
<i>DoubleId</i>	DM_DECB_VCAN2_4 (description="DM_DECB_VCAN2_4 [eng, V]", quantity="none")
<i>StringId</i>	DM_FWPC_SEARCHA (description="DM_FWPC_SEARCHA", quantity="none")
<i>DoubleId</i>	DM_REF_VOLT_0V (description="DM_REF_VOLT_0V [eng, V]", quantity="none")

<i>StringId</i>	DM_FPU_S1_TS_ST (description="DM_FPU_S1_TS_ST", quantity="none")
<i>DoubleId</i>	DM_CPU_LOAD (description="DM_CPU_LOAD [eng, %]", quantity="none")
<i>LongId</i>	DM_BBID (description="DM_BBID [raw]", quantity="none")
<i>StringId</i>	DP_STABLE_SPL (description="DP_STABLE_SPL", quantity="none")
<i>StringId</i>	DM_DPUR_ERR_NS (description="DM_DPUR_ERR_NS", quantity="none")
<i>StringId</i>	DM_FPU_FWS_TS_S (description="DM_FPU_FWS_TS_S", quantity="none")
<i>StringId</i>	DM_GC_HOM_COMP (description="DM_GC_HOM_COMP", quantity="none")
<i>LongId</i>	DM_SEQ_LABEL (description="DM_SEQ_LABEL [raw]", quantity="none")
<i>DoubleId</i>	DM_FPU_T1_TEMP (description="DM_FPU_T1_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_CR1_ST_CUR (description="DM_CR1_ST_CUR", quantity="none")
<i>LongId</i>	SPL_VID (description="SPL_VID [raw]", quantity="none")
<i>LongId</i>	DM_BOL_CTRL_PAC (description="DM_BOL_CTRL_PAC [raw]", quantity="none")
<i>LongId</i>	DM_BLUE_ENC_PAC (description="DM_BLUE_ENC_PAC [raw]", quantity="none")
<i>LongId</i>	DP_SPUL_LINK_DE (description="DP_SPUL_LINK_DE [raw]", quantity="none")
<i>DoubleId</i>	DM_SPU_VP_CUR (description="DM_SPU_VP_CUR [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECR_REF_0V1 (description="DM_DECR_REF_0V1 [eng, V]", quantity="none")
<i>StringId</i>	DM_DSIM_B_SIMUL (description="DM_DSIM_B_SIMUL", quantity="none")
<i>DoubleId</i>	DM_DECR_REF_0V2 (description="DM_DECR_REF_0V2 [eng, V]", quantity="none")
<i>LongId</i>	DM_DRC_SPARE3 (description="DM_DRC_SPARE3 [raw]", quantity="none")
<i>LongId</i>	HD_SEG_FLAG (description="HD_SEG_FLAG [raw]", quantity="none")
<i>StringId</i>	DM_FWPC_MOVING (description="DM_FWPC_MOVING", quantity="none")
<i>StringId</i>	DM_CR2_ST_HE (description="DM_CR2_ST_HE", quantity="none")
<i>LongId</i>	DM_BOL_STATUS (description="DM_BOL_STATUS [raw]", quantity="none")
<i>StringId</i>	DM_CS1C_TASK_WR (description="DM_CS1C_TASK_WR", quantity="none")
<i>StringId</i>	DM_CS1C_SYNCHRO (description="DM_CS1C_SYNCHRO", quantity="none")

<i>LongId</i>	DM_B_SPEC_READ (description="DM_B_SPEC_READ [raw]", quantity="none")
<i>StringId</i>	DP_EV_DEC_SPC (description="DP_EV_DEC_SPC", quantity="none")
<i>DoubleId</i>	DM_SPU_VCC_VOL (description="DM_SPU_VCC_VOL [eng, V]", quantity="none")
<i>DoubleId</i>	DM_CHOPPER_TEMP (description="DM_CHOPPER_TEMP [eng, K]", quantity="none")
<i>StringId</i>	SPL_DMC_LINK (description="SPL_DMC_LINK", quantity="none")
<i>LongId</i>	DM_BPE_SPARE4 (description="DM_BPE_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DP_DEC_LINK_PE (description="DP_DEC_LINK_PE [raw]", quantity="none")
<i>LongId</i>	DM_DECB_RO_RA_4 (description="DM_DECB_RO_RA_4 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_RO_RA_3 (description="DM_DECB_RO_RA_3 [raw]", quantity="none")
<i>LongId</i>	DP_TC_LOST (description="DP_TC_LOST [raw]", quantity="none")
<i>StringId</i>	DP_RED_SCIENCE (description="DP_RED_SCIENCE", quantity="none")
<i>DoubleId</i>	SPS_CPUWORKLOAD (description="SPS_CPUWORKLOAD [eng, %]", quantity="none")
<i>StringId</i>	DM_DBC_TASK_WR (description="DM_DBC_TASK_WR", quantity="none")
<i>StringId</i>	DM_GC_TASK_WR (description="DM_GC_TASK_WR", quantity="none")
<i>LongId</i>	HD_SRC_SEQ_CTN (description="HD_SRC_SEQ_CTN [raw]", quantity="none")
<i>StringId</i>	DM_CS2C_LOOP (description="DM_CS2C_LOOP", quantity="none")
<i>StringId</i>	DM_CR3_ST_HE (description="DM_CR3_ST_HE", quantity="none")
<i>StringId</i>	DM_CS1C_UP (description="DM_CS1C_UP", quantity="none")
<i>StringId</i>	DM_CS1C_LOOP (description="DM_CS1C_LOOP", quantity="none")
<i>StringId</i>	DM_RPE_LINK (description="DM_RPE_LINK", quantity="none")
<i>LongId</i>	DM_DBC_SPARE3 (description="DM_DBC_SPARE3 [raw]", quantity="none")
<i>DoubleId</i>	DM_CS2_OUTPUT (description="DM_CS2_OUTPUT [eng, V]", quantity="none")
<i>LongId</i>	DM_RPE_SPARE4 (description="DM_RPE_SPARE4 [raw]", quantity="none")
<i>StringId</i>	DM_RPE_TASK_WR (description="DM_RPE_TASK_WR", quantity="none")
<i>StringId</i>	DP_WHICH_OBCP (description="DP_WHICH_OBCP", quantity="none")
<i>StringId</i>	DM_CS1C_PID (description="DM_CS1C_PID", quantity="none")

<i>StringId</i>	DP_1553CHANNEL (description="DP_1553CHANNEL", quantity="none")
<i>LongId</i>	DM_CC_SPARE1B (description="DM_CC_SPARE1B [raw]", quantity="none")
<i>LongId</i>	DM_CC_SPARE1A (description="DM_CC_SPARE1A [raw]", quantity="none")
<i>LongId</i>	DM_DECB_CTRL_ST (description="DM_DECB_CTRL_ST [raw]", quantity="none")
<i>StringId</i>	DM_DBC_POWER (description="DM_DBC_POWER", quantity="none")
<i>LongId</i>	DP_COM_DMC_NACK (description="DP_COM_DMC_NACK [raw]", quantity="none")
<i>StringId</i>	DM_DRC_POWER (description="DM_DRC_POWER", quantity="none")
<i>LongId</i>	DP_SW_SUBVERS_ID (description="DP_SW_SUBVERS_ID [raw]", quantity="none")
<i>StringId</i>	DM_BPE_LINK (description="DM_BPE_LINK", quantity="none")
<i>StringId</i>	DM_FWSC_POWER (description="DM_FWSC_POWER", quantity="none")
<i>StringId</i>	DM_DBC_TASK_AL (description="DM_DBC_TASK_AL", quantity="none")
<i>StringId</i>	DM_GC_LL_UNLOCK (description="DM_GC_LL_UNLOCK", quantity="none")
<i>StringId</i>	DM_CR3_ST_FL (description="DM_CR3_ST_FL", quantity="none")
<i>LongId</i>	DM_R_SPEC_READ (description="DM_R_SPEC_READ [raw]", quantity="none")
<i>LongId</i>	DM_DM_SF_IND (description="DM_DM_SF_IND [raw]", quantity="none")
<i>LongId</i>	DM_RED_PAC_ENC (description="DM_RED_PAC_ENC [raw]", quantity="none")
<i>LongId</i>	DM_CS2C_SPARE4 (description="DM_CS2C_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DM_CS2C_SPARE1 (description="DM_CS2C_SPARE1 [raw]", quantity="none")
<i>LongId</i>	DM_CS1C_SPARE1B (description="DM_CS1C_SPARE1B [raw]", quantity="none")
<i>LongId</i>	DM_DECB_REC_STA (description="DM_DECB_REC_STA [raw]", quantity="none")
<i>StringId</i>	DM_DRC_ERR_NS (description="DM_DRC_ERR_NS", quantity="none")
<i>DoubleId</i>	DM_REF_VOLT_5V (description="DM_REF_VOLT_5V [eng, V]", quantity="none")
<i>StringId</i>	DM_CR3_ST_SEL (description="DM_CR3_ST_SEL", quantity="none")
<i>StringId</i>	DP_CONTROLLER (description="DP_CONTROLLER", quantity="none")

<i>LongId</i>	DM_CHOP_CTRL_ST (description="DM_CHOP_CTRL_ST [raw]", quantity="none")
<i>StringId</i>	DM_CR1_ST_SEL (description="DM_CR1_ST_SEL", quantity="none")
<i>LongId</i>	DP_COM_SPL_NACK (description="DP_COM_SPL_NACK [raw]", quantity="none")
<i>LongId</i>	SPL_CI (description="SPL_CI [raw]", quantity="none")
<i>StringId</i>	DM_RSPU_TR_MODE (description="DM_RSPU_TR_MODE", quantity="none")
<i>LongId</i>	HD_SOURCE_TYPE (description="HD_SOURCE_TYPE [raw]", quantity="none")
<i>LongId</i>	DM_HKD_ERROR (description="DM_HKD_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_SEQ_WAIT_IND (description="DM_SEQ_WAIT_IND [raw]", quantity="none")
<i>StringId</i>	DM_BR_ERR_NS (description="DM_BR_ERR_NS", quantity="none")
<i>DoubleId</i>	BOL_TEMP_PSU_2 (description="BOL_TEMP_PSU_2 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_PSU_1 (description="BOL_TEMP_PSU_1 [eng, degC]", quantity="none")
<i>DoubleId</i>	DM_CS1_RES_VAL (description="DM_CS1_RES_VAL [eng, Ohm]", quantity="none")
<i>LongId</i>	DM_FWSC_ERROR (description="DM_FWSC_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_CS2C_COMMUT (description="DM_CS2C_COMMUT", quantity="none")
<i>LongId</i>	DP_SPUL_LINK_PE (description="DP_SPUL_LINK_PE [raw]", quantity="none")
<i>LongId</i>	DM_DPU_SEND_PAC (description="DM_DPU_SEND_PAC [raw]", quantity="none")
<i>StringId</i>	DP_DMC_LINK (description="DP_DMC_LINK", quantity="none")
<i>LongId</i>	DM_VID (description="DM_VID [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_V_PWR (description="DP_EV_BOL_V_PWR", quantity="none")
<i>LongId</i>	SPL_REAL (description="SPL_REAL [raw]", quantity="none")
<i>LongId</i>	DM_GRAT_SETPOIN (description="DM_GRAT_SETPOIN [raw]", quantity="none")
<i>LongId</i>	DM_DECR_TS_ST_1 (description="DM_DECR_TS_ST_1 [raw]", quantity="none")
<i>LongId</i>	DM_DECR_TS_ST_2 (description="DM_DECR_TS_ST_2 [raw]", quantity="none")
<i>StringId</i>	DM_CS1C_ERR_NS (description="DM_CS1C_ERR_NS", quantity="none")
<i>StringId</i>	DM_GC_HOM_PROG (description="DM_GC_HOM_PROG", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_SP2 (description="DP_EV_BOL_I_SP2", quantity="none")

<i>LongId</i>	DM_CHOP_PID_ERR (description="DM_CHOP_PID_ERR [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_SP1 (description="DP_EV_BOL_I_SP1", quantity="none")
<i>StringId</i>	DP_COUNTER_DEC (description="DP_COUNTER_DEC", quantity="none")
<i>LongId</i>	DP_STATUS (description="DP_STATUS [raw]", quantity="none")
<i>LongId</i>	SPL_INTEG_RAMPS (description="SPL_INTEG_RAMPS [raw]", quantity="none")
<i>DoubleId</i>	DM_CS1_TARGET (description="DM_CS1_TARGET [eng, Ohm]", quantity="none")
<i>LongId</i>	DP_COM_REJ_DPU (description="DP_COM_REJ_DPU [raw]", quantity="none")
<i>LongId</i>	DM_DECR_RO_RA_1 (description="DM_DECR_RO_RA_1 [raw]", quantity="none")
<i>LongId</i>	DM_DECR_RO_RA_2 (description="DM_DECR_RO_RA_2 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_VCAN1_4 (description="DM_DECB_VCAN1_4 [eng, V]", quantity="none")
<i>LongId</i>	DM_DM_DF_IND (description="DM_DM_DF_IND [raw]", quantity="none")
<i>StringId</i>	DP_HK_MONITOR (description="DP_HK_MONITOR", quantity="none")
<i>DoubleId</i>	DM_DECB_VCAN1_3 (description="DM_DECB_VCAN1_3 [eng, V]", quantity="none")
<i>StringId</i>	DM_CC_ERR_NS (description="DM_CC_ERR_NS", quantity="none")
<i>StringId</i>	DM_CR4_ST_CS (description="DM_CR4_ST_CS", quantity="none")
<i>LongId</i>	SPS_INTEG_RAMPS (description="SPS_INTEG_RAMPS [raw]", quantity="none")
<i>LongId</i>	SPS_MAINT_RAMPS (description="SPS_MAINT_RAMPS [raw]", quantity="none")
<i>LongId</i>	DM_DECR_REC_STA (description="DM_DECR_REC_STA [raw]", quantity="none")
<i>StringId</i>	DM_DBC_ERR_NS (description="DM_DBC_ERR_NS", quantity="none")
<i>DoubleId</i>	DM_SPU_PSU_P15V (description="DM_SPU_PSU_P15V [eng, V]", quantity="none")
<i>LongId</i>	DM_CC_SPARE1C (description="DM_CC_SPARE1C [raw]", quantity="none")
<i>DoubleId</i>	DM_SPU_LWL_TEMP (description="DM_SPU_LWL_TEMP [eng, K]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_5 (description="DM_CUSTOM_ENT_5 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_4 (description="DM_CUSTOM_ENT_4 [raw]", quantity="none")

<i>LongId</i>	DM_CUSTOM_ENT_7 (description="DM_CUSTOM_ENT_7 [raw]", quantity="none")
<i>LongId</i>	DP_DEC_LINK_DE (description="DP_DEC_LINK_DE [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_6 (description="DM_CUSTOM_ENT_6 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_9 (description="DM_CUSTOM_ENT_9 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_8 (description="DM_CUSTOM_ENT_8 [raw]", quantity="none")
<i>StringId</i>	DP_HK_CHK (description="DP_HK_CHK", quantity="none")
<i>LongId</i>	DM_DECR_CTRL_ST (description="DM_DECR_CTRL_ST [raw]", quantity="none")
<i>LongId</i>	HD_DATA_FLAG (description="HD_DATA_FLAG [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_1 (description="DM_CUSTOM_ENT_1 [raw]", quantity="none")
<i>StringId</i>	DM_FWSC_SEARCHB (description="DM_FWSC_SEARCHB", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_3 (description="DM_CUSTOM_ENT_3 [raw]", quantity="none")
<i>StringId</i>	DM_FWSC_SEARCHA (description="DM_FWSC_SEARCHA", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_2 (description="DM_CUSTOM_ENT_2 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_TS_ST_4 (description="DM_DECB_TS_ST_4 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_TS_ST_3 (description="DM_DECB_TS_ST_3 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_VBI_R_2 (description="DM_DECR_VBI_R_2 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_VBI_R_1 (description="DM_DECR_VBI_R_1 [eng, V]", quantity="none")
<i>StringId</i>	DM_CR2_ST_CRPOW (description="DM_CR2_ST_CRPOW", quantity="none")
<i>StringId</i>	DM_CS2C_ERR_NS (description="DM_CS2C_ERR_NS", quantity="none")
<i>StringId</i>	DM_CR3_ST_CS (description="DM_CR3_ST_CS", quantity="none")
<i>LongId</i>	DM_CHOP_TARGET (description="DM_CHOP_TARGET [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_V0BIAS1 (description="DM_DECR_V0BIAS1 [eng, V]", quantity="none")
<i>StringId</i>	DM_SEQ_TASK_WR (description="DM_SEQ_TASK_WR", quantity="none")
<i>DoubleId</i>	DM_DECR_V0BIAS2 (description="DM_DECR_V0BIAS2 [eng, V]", quantity="none")

<i>StringId</i>	SPS_SATUR_FLAG (description="SPS_SATUR_FLAG", quantity="none")
<i>StringId</i>	DM_FWSP_CUR_POS (description="DM_FWSP_CUR_POS", quantity="none")
<i>StringId</i>	DP_EVENT_SPU (description="DP_EVENT_SPU", quantity="none")
<i>StringId</i>	DM_DPUS_TASK_AL (description="DM_DPUS_TASK_AL", quantity="none")
<i>LongId</i>	DM_CS1_CTRL_STA (description="DM_CS1_CTRL_STA [raw]", quantity="none")
<i>StringId</i>	DM_DPUR_LINK (description="DM_DPUR_LINK", quantity="none")
<i>DoubleId</i>	DM_CS2_RES_VAL (description="DM_CS2_RES_VAL [eng, Ohm]", quantity="none")
<i>StringId</i>	DM_DRR_TASK_AL (description="DM_DRR_TASK_AL", quantity="none")
<i>StringId</i>	DM_GC_LS (description="DM_GC_LS", quantity="none")
<i>StringId</i>	DM_CS2C_TASK_AL (description="DM_CS2C_TASK_AL", quantity="none")
<i>DoubleId</i>	DP_WORK_LOAD (description="DP_WORK_LOAD [eng, %]", quantity="none")
<i>LongId</i>	DP_HK_LOST (description="DP_HK_LOST [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_VDDA_4 (description="DM_DECB_VDDA_4 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_GRATING_TEMP (description="DM_GRATING_TEMP [eng, K]", quantity="none")
<i>DoubleId</i>	DM_DECB_VDDA_3 (description="DM_DECB_VDDA_3 [eng, V]", quantity="none")
<i>LongId</i>	DM_DRR_SPARE2 (description="DM_DRR_SPARE2 [raw]", quantity="none")
<i>LongId</i>	DM_DRC_ERROR (description="DM_DRC_ERROR [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_VDDA_1 (description="DM_DECR_VDDA_1 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_VDDA_2 (description="DM_DECR_VDDA_2 [eng, V]", quantity="none")
<i>StringId</i>	DM_FWSC_POSC_B (description="DM_FWSC_POSC_B", quantity="none")
<i>StringId</i>	DM_FWSC_POSC_A (description="DM_FWSC_POSC_A", quantity="none")
<i>DoubleId</i>	DM_DECR_VCAN1_2 (description="DM_DECR_VCAN1_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_EV_SWT (description="BOL_TEMP_EV_SWT [eng, K]", quantity="none")
<i>DoubleId</i>	DM_DECR_VCAN1_1 (description="DM_DECR_VCAN1_1 [eng, V]", quantity="none")

<i>LongId</i>	HD_PCKT_SUBTYPE (description="HD_PCKT_SUBTYPE [raw]", quantity="none")
<i>StringId</i>	DM_CR1_ST_SIM (description="DM_CR1_ST_SIM", quantity="none")
<i>DoubleId</i>	DM_DECB_AC_CUR (description="DM_DECB_AC_CUR [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECB_VBI_R_4 (description="DM_DECB_VBI_R_4 [eng, V]", quantity="none")
<i>StringId</i>	SPL_SATUR_FLAG (description="SPL_SATUR_FLAG", quantity="none")
<i>DoubleId</i>	DM_DECB_VBI_R_3 (description="DM_DECB_VBI_R_3 [eng, V]", quantity="none")
<i>LongId</i>	DM_DECR_CR_ST_2 (description="DM_DECR_CR_ST_2 [raw]", quantity="none")
<i>LongId</i>	DM_DBC_ERROR (description="DM_DBC_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_DECR_CR_ST_1 (description="DM_DECR_CR_ST_1 [raw]", quantity="none")
<i>StringId</i>	DP_AF_24_SPARE (description="DP_AF_24_SPARE", quantity="none")
<i>DoubleId</i>	DM_DECR_VDDR_1 (description="DM_DECR_VDDR_1 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_VDDR_2 (description="DM_DECR_VDDR_2 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DCDC_TEMP (description="DM_DCDC_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DP_1355_HANDLER (description="DP_1355_HANDLER", quantity="none")
<i>StringId</i>	DM_DRR_SIM_TIME (description="DM_DRR_SIM_TIME", quantity="none")
<i>StringId</i>	DM_CR1_ST_CS (description="DM_CR1_ST_CS", quantity="none")
<i>LongId</i>	HD_PUS_VERSION (description="HD_PUS_VERSION [raw]", quantity="none")
<i>LongId</i>	DP_SPARE (description="DP_SPARE [raw]", quantity="none")
<i>StringId</i>	DM_FWSC_POS_B (description="DM_FWSC_POS_B", quantity="none")
<i>LongId</i>	DP_SW_VERS_ID (description="DP_SW_VERS_ID [raw]", quantity="none")
<i>StringId</i>	DM_FWSC_ERR_NS (description="DM_FWSC_ERR_NS", quantity="none")
<i>StringId</i>	DM_FWSC_POS_A (description="DM_FWSC_POS_A", quantity="none")
<i>StringId</i>	DP_SPUL_HK (description="DP_SPUL_HK", quantity="none")
<i>LongId</i>	DM_BOL_REC_PAC (description="DM_BOL_REC_PAC [raw]", quantity="none")
<i>StringId</i>	DP_COUNTER_SPEC (description="DP_COUNTER_SPEC", quantity="none")

<i>LongId</i>	DP_EVENT_LOST (description="DP_EVENT_LOST [raw]", quantity="none")
<i>LongId</i>	SPS_OBSID (description="SPS_OBSID [raw]", quantity="none")
<i>DoubleId</i>	DM_CS2_TARGET (description="DM_CS2_TARGET [eng, Ohm]", quantity="none")
<i>StringId</i>	DM_DRR_LINK (description="DM_DRR_LINK", quantity="none")
<i>StringId</i>	DM_DBR_TASK_WR (description="DM_DBR_TASK_WR", quantity="none")
<i>StringId</i>	DP_EVENT_DPU (description="DP_EVENT_DPU", quantity="none")
<i>StringId</i>	DM_BC_TASK_WR (description="DM_BC_TASK_WR", quantity="none")
<i>StringId</i>	DP_INIT (description="DP_INIT", quantity="none")
<i>LongId</i>	DM_PLL_RES_LO (description="DM_PLL_RES_LO [raw]", quantity="none")
<i>LongId</i>	SPL_MEM_CNTS (description="SPL_MEM_CNTS [raw]", quantity="none")
<i>LongId</i>	DP_AF_STATUS (description="DP_AF_STATUS [raw]", quantity="none")
<i>StringId</i>	DM_CC_DOWN (description="DM_CC_DOWN", quantity="none")
<i>DoubleId</i>	DM_CHOP_OUTPUT (description="DM_CHOP_OUTPUT [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECB_VDDR_4 (description="DM_DECB_VDDR_4 [eng, V]", quantity="none")
<i>StringId</i>	DP_TM_RATE (description="DP_TM_RATE", quantity="none")
<i>DoubleId</i>	DM_DECB_VDDR_3 (description="DM_DECB_VDDR_3 [eng, V]", quantity="none")
<i>StringId</i>	DM_CR2_ST_SEL (description="DM_CR2_ST_SEL", quantity="none")
<i>StringId</i>	DP_DMC_HK (description="DP_DMC_HK", quantity="none")

3.6.37. PACS Product Level 0 - Raw Data Spectrometer blue

<i>product</i> (type="HPSRAWBS", description="Raw Data Spectrometer blue")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")

StringParameter	camName (description="Name of the Camera")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
BooleanParameter	Initialized (description="null")
LongParameter	Obsid (description="null")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1:BoIRed 2:BoIBlue 3:SpecRed 4:SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product Level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")

DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")

LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineId (description="HSPOT: line ID", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
<i>Columns</i>	
<i>table dataset</i>	(name="Signal", description="Table for science data.")
<i>Metadata</i>	
<i>Columns</i>	
<i>Int1d</i>	detnum (description="null", quantity="none")
<i>Int1d</i>	row (description="null", quantity="none")
<i>Int1d</i>	column (description="null", quantity="none")
<i>Int1d</i>	reset (description="null", quantity="none")
<i>Double2d</i>	readouts (description="null", quantity="none")

3.6.38. PACS Product Level 0 - Raw Data Spectrometer red

<i>product (type="HPSRAWRS", description="Raw Data Spectrometer red")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
StringParameter	camName (description="Name of the Camera")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
BooleanParameter	Initialized (description="null")
LongParameter	Obsid (description="null")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product Level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")

StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")

BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineId (description="HSPOT: line ID", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")

DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
Columns	
table dataset	(name="Signal", description="Table for science data.")
Metadata	
Columns	
Int1d	detnum (description="null", quantity="none")
Int1d	row (description="null", quantity="none")
Int1d	column (description="null", quantity="none")
Int1d	reset (description="null", quantity="none")
Double2d	readouts (description="null", quantity="none")

3.6.39. PACS Product Level 0.5 - Spectroscopy raw DecMec status blue product

<i>product (type="HPSDMCBS", description="Spectroscopy raw DecMec status blue product")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")

StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")

BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")

DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	repetition (description="SLICE_INFO: repetition", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
LongParameter	sliceNumber (description="Slice number", quantity="micrometer")
<i>Columns</i>	
<i>table dataset</i>	(name="DmcHeader", description="Status")
<i>Metadata</i>	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
LongParameter	DIM2 (description="Number of measures per status parameter")

<i>Columns</i>	
<i>Int1d</i>	RESETINDEX (description="Indicates the reset index of the status parameters", quantity="none")
<i>Int1d</i>	OBSID (description="Identifier of the observation", quantity="none")
<i>Int1d</i>	BBID (description="Building block type", quantity="none")
<i>Int2d</i>	LBL (description="Label", quantity="none")
<i>Int2d</i>	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
<i>Int2d</i>	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
<i>Long2d</i>	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
<i>Int2d</i>	VLD (description="Validity flag set by DecMec", quantity="none")
<i>Int2d</i>	CPR (description="Chopper position", quantity="none")
<i>Int2d</i>	WPR (description="Filter wheel Position", quantity="none")
<i>Int2d</i>	GPR (description="Grating Position", quantity="none")
<i>Int2d</i>	CRCRMP (description="Readout counter within an integration ramp", quantity="none")
<i>Int2d</i>	RRR (description="Readouts in Ramp", quantity="none")
<i>Int2d</i>	CRDC (description="Current Readout counter since last time reset", quantity="none")
<i>Int2d</i>	CRECR (description="CRE status word", quantity="none")

3.6.40. PACS Product Level 0.5 - Spectroscopy raw DecMec status blue product

<i>product (type="HPSDMCBS", description="Spectroscopy raw DecMec status blue product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")

LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")

StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	lWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")

DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")

LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")		
LongParameter	sliceNumber (description="Slice number", quantity="micrometer")		
Columns			
table dataset	(name="DmcHeader", description="Status")		
Metadata			
StringParameter	MODE (description="null")		
LongParameter	DIM1 (description="Number of measures per status parameter")		
LongParameter	DIM2 (description="Number of measures per status parameter")		
Columns			
	Int1d	RESETINDEX (description="Indicates the reset index of the status parameters", quantity="none")	
	Int1d	OBSID (description="Identifier of the observation", quantity="none")	
	Int1d	BBID (description="Building block type", quantity="none")	
	Int2d	LBL (description="Label", quantity="none")	
	Int2d	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")	
	Int2d	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")	
	Long2d	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")	
	Int2d	VLD (description="Validity flag set by DecMec", quantity="none")	
	Int2d	CPR (description="Chopper position", quantity="none")	
	Int2d	WPR (description="Filter wheel Position", quantity="none")	
	Int2d	GPR (description="Grating Position", quantity="none")	
	Int2d	CRCRMP (description="Readout counter within an integration ramp", quantity="none")	
	Int2d	RRR (description="Readouts in Ramp", quantity="none")	
	Int2d	CRDC (description="Current Readout counter since last time reset", quantity="none")	
	Int2d	CRECR (description="CRE status word", quantity="none")	

3.6.41. PACS Product Level 0.5 - Spectroscopy raw DecMec status red product

<i>product (type="HPSDMCRS", description="Spectroscopy raw DecMec status red product")</i>			
Metadata			
StringParameter	type (description="Product Type Identification")		
StringParameter	creator (description="Generator of this product")		
DateParameter	creationDate (description="Creation date of this product")		
StringParameter	description (description="Name of this product")		
StringParameter	instrument (description="Instrument attached to this product")		
StringParameter	modelName (description="Model name attached to this product")		
DateParameter	startDate (description="Start date of the observation")		

DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")

StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	lWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")

StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="s")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="s")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="s")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="s")
LongParameter	order (description="SLICE_INFO: filter order", quantity="s")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="s")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")

StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	repetition (description="SLICE_INFO: repetition", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
LongParameter	sliceNumber (description="Slice number", quantity="micrometer")
Columns	
table dataset	(name="DmcHeader", description="Status")
Metadata	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
LongParameter	DIM2 (description="Number of measures per status parameter")
Columns	
Int1d	RESETINDEX (description="Indicates the reset index of the status parameters", quantity="none")
Int1d	OBSID (description="Identifier of the observation", quantity="none")
Int1d	BBID (description="Building block type", quantity="none")
Int2d	LBL (description="Label", quantity="none")
Int2d	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
Int2d	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
Long2d	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
Int2d	VLD (description="Validity flag set by DecMec", quantity="none")
Int2d	CPR (description="Chopper position", quantity="none")
Int2d	WPR (description="Filter wheel Position", quantity="none")
Int2d	GPR (description="Grating Position", quantity="none")
Int2d	CRCRMP (description="Readout counter within an integration ramp", quantity="none")
Int2d	RRR (description="Readouts in Ramp", quantity="none")
Int2d	CRDC (description="Current Readout counter since last time reset", quantity="none")
Int2d	CRECR (description="CRE status word", quantity="none")

3.6.42. PACS Product Level 0.5 - Spectroscopy raw DecMec status red product

<i>product (type="HPSDMCRS", description="Spectroscopy raw DecMec status red product")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")

StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")

StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")

StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	orderSel (description="HSPOT: blue band (order2: 50-70um, order3: 70-100um)", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
DoubleParameter	compVersion (description="null", quantity="deg")
DoubleParameter	algoNumber (description="null", quantity="deg")
StringParameter	algorithm (description="null", quantity="deg")
DoubleParameter	compNumber (description="null", quantity="deg")
StringParameter	compMode (description="null", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="s")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="s")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="s")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="s")
LongParameter	order (description="SLICE_INFO: filter order", quantity="s")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="s")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")

BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
LongParameter	sliceNumber (description="Slice number", quantity="micrometer")
<i>Columns</i>	
<i>table dataset</i>	(name="DmcHeader", description="Status")
<i>Metadata</i>	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
LongParameter	DIM2 (description="Number of measures per status parameter")
<i>Columns</i>	
<i>Int1d</i>	RESETINDEX (description="Indicates the reset index of the status parameters", quantity="none")
<i>Int1d</i>	OBSID (description="Identifier of the observation", quantity="none")
<i>Int1d</i>	BBID (description="Building block type", quantity="none")
<i>Int2d</i>	LBL (description="Label", quantity="none")
<i>Int2d</i>	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
<i>Int2d</i>	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
<i>Long2d</i>	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
<i>Int2d</i>	VLD (description="Validity flag set by DecMec", quantity="none")
<i>Int2d</i>	CPR (description="Chopper position", quantity="none")
<i>Int2d</i>	WPR (description="Filter wheel Position", quantity="none")
<i>Int2d</i>	GPR (description="Grating Position", quantity="none")
<i>Int2d</i>	CRCRMP (description="Readout counter within an integration ramp", quantity="none")
<i>Int2d</i>	RRR (description="Readouts in Ramp", quantity="none")
<i>Int2d</i>	CRDC (description="Current Readout counter since last time reset", quantity="none")
<i>Int2d</i>	CRECR (description="CRE status word", quantity="none")

3.6.43. PACS Product Level 0.5 - Spectroscopy slope fitted blue product

<i>product (type="HPSFITBS", description="Spectroscopy slope fitted blue product")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")

LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")

DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")

LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	lWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")

StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	repetition (description="SLICE_INFO: repetition", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double3d</i>	(description="null", quantity="V s-1")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Ra", description="null")

	()
<i>array dataset</i>	Dataset similar to the one above with (name="Dec", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Wave", description="null")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

3.6.44. PACS Product Level 0.5 - Spectroscopy slope fitted blue product

<i>product (type="HPSFITBS", description="Spectroscopy slope fitted blue product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")

StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")

DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")

DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")

StringParameter	Line2 (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacsSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")

LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")			
Columns				
array dataset	(description="null")			
Metadata				
Columns				
Double3d	(description="null", quantity="V s-1")			
	()			
array dataset	Dataset similar to the one above with (name="Ra", description="null")			
	()			
array dataset	Dataset similar to the one above with (name="Dec", description="null")			
	()			
array dataset	Dataset similar to the one above with (name="Wave", description="null")			
	()			
composite dataset	Dataset similar to the one above with (name="History", description="History of product")			

3.6.45. PACS Product Level 0.5 - Spectroscopy slope fitted red product

<i>product (type="HPSFITRS", description="Spectroscopy slope fitted red product")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")

DoubleParameter	subType (description="HSPOT: Product subtype: 1:BolRed 2:BolBlue 3:SpecRed 4:SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")

StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")

BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")

StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacsSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")

BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	repetition (description="SLICE_INFO: repetition", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
Columns	
array dataset	(description="null")
Metadata	
Columns	
Double3d	(description="null", quantity="V s-1")
	()
array dataset	Dataset similar to the one above with (name="Ra", description="null")
	()
array dataset	Dataset similar to the one above with (name="Dec", description="null")
	()
array dataset	Dataset similar to the one above with (name="Wave", description="null")
	()
composite dataset	Dataset similar to the one above with (name="History", description="History of product")

3.6.46. PACS Product Level 0.5 - Spectroscopy slope fitted red product

<i>product (type="HPSFITRS", description="Spectroscopy slope fitted red product")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")

DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")

StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")

StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")

StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")

BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
Columns	
array dataset	(description="null")
Metadata	
Columns	
Double3d	(description="null", quantity="V s-1")
	()
array dataset	Dataset similar to the one above with (name="Ra", description="null")
	()
array dataset	Dataset similar to the one above with (name="Dec", description="null")
	()
array dataset	Dataset similar to the one above with (name="Wave", description="null")
	()
composite dataset	Dataset similar to the one above with (name="History", description="History of product")

3.7. PACS Spectroscopy Level-1 products

3.7.1. PACS Product Level 1 - Spectroscopy blue 3d cube product

<i>product</i> (type="HPS3DBS", description="Spectroscopy blue 3d cube product")	
Metadata	

StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
StringParameter	productNotes (description="Product notes")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="PACS compression algorithm version")
DoubleParameter	algoNumber (description="PACS compression algorithm number")
StringParameter	algorithm (description="PACS compression algorithm description")
DoubleParameter	compNumber (description="PACS compression algorithm number")
StringParameter	compMode (description="PACS compression algorithm model")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")

StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")

StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="Observing mode summary", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="SSO NAIF identifier (DEPRECATED: use naifId instead)", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")

StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	IcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration version", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="HSPOT: start time of the observation", quantity="deg")
DoubleParameter	duration (description="HSPOT: Total duration of the observation", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="spectral line/range: wavelength, reps, id", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="Startracker mode", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")

StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="micrometer")
DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
Columns	
array dataset	(description="Flux")
Metadata	

<i>Columns</i>	
<i>Double3d</i>	(description="Flux", quantity="Jy/pixel")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="wave", description="Wave-length in micron")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="ra", description="Ra in de-grees")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="dec", description="Dec in de-grees")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

3.7.2. PACS Product Level 1 - Spectroscopy red 3d cube product

<i>product (type="HPS3DRS", description="Spectroscopy red 3d cube product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
StringParameter	productNotes (description="Product notes")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")

DoubleParameter	subType (description="HSPOT: Product subtype: 1:BolRed 2:BolBlue 3:SpecRed 4:SpecBlue")
DoubleParameter	compVersion (description="PACS compression algorithm version")
DoubleParameter	algoNumber (description="PACS compression algorithm number")
StringParameter	algorithm (description="PACS compression algorithm description")
DoubleParameter	compNumber (description="PACS compression algorithm number")
StringParameter	compMode (description="PACS compression algorithm model")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")

DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="Observing mode summary", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")

BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="SSO NAIF identifier (DEPRECATED: use naifId instead)", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration version", quantity="deg")

StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="HSPOT: start time of the observation", quantity="deg")
DoubleParameter	duration (description="HSPOT: Total duration of the observation", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="spectral line/range: wavelength, reps, id", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="Startracker mode", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacsSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")

DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="micrometer")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
Columns	
array dataset	(description="Flux")
Metadata	
Columns	
Double3d	(description="Flux", quantity="Jy/pixel")
	()
array dataset	Dataset similar to the one above with (name="wave", description="Wavelength in micron")
	()
array dataset	Dataset similar to the one above with (name="ra", description="Ra in degrees")
	()
array dataset	Dataset similar to the one above with (name="dec", description="Dec in degrees")
	()
composite dataset	Dataset similar to the one above with (name="History", description="History of product")

3.7.3. PACS Product Level 1 - Spectroscopy blue calibration product

<i>product</i> (type="HPSCALB", description="Spectroscopy blue calibration product")	
Metadata	

StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="PACS compression algorithm version")
DoubleParameter	algoNumber (description="PACS compression algorithm number")
StringParameter	algorithm (description="PACS compression algorithm description")
DoubleParameter	compNumber (description="PACS compression algorithm number")
StringParameter	compMode (description="PACS compression algorithm model")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")

LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")

DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="Observing mode summary", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")

DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="SSO NAIF identifier (DEPRECATED: use naifId instead)", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	lWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration version", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="HSPOT: start time of the observation", quantity="deg")
DoubleParameter	duration (description="HSPOT: Total duration of the observation", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="spectral line/range: wavelength, reps, id", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")

DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="Startracker mode", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")

BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="micrometer")
LongParameter	repetition (description="SLICE_INFO: repetition", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
StringParameter	productNotes (description="Product notes", quantity="micrometer")
DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="micrometer")
DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="micrometer")
Columns	
compose	(description="Absolute pixel response and dark current for CalBlock0")
Metadata	
StringParameter	Band (description="Band of the calibration block")
DateParameter	Start Time (description="Start time of the calibration block")
DateParameter	End Time (description="End time of the calibration block")
Columns	
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="V s-1")
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="none")

3.7.4. PACS Product Level 1 - Spectroscopy red calibration product

product (type="HPSCALR", description="Spectroscopy red calibration product")

<i>Metada- ta</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="PACS compression algorithm version")
DoubleParameter	algoNumber (description="PACS compression algorithm number")
StringParameter	algorithm (description="PACS compression algorithm description")
DoubleParameter	compNumber (description="PACS compression algorithm number")
StringParameter	compMode (description="PACS compression algorithm model")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")

StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")

DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="Observing mode summary", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")

DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="SSO NAIIF identifier (DEPRECATED: use naifId instead)", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration version", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="HSPOT: start time of the observation", quantity="deg")
DoubleParameter	duration (description="HSPOT: Total duration of the observation", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="spectral line/range: wavelength, reps, id", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")

LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="Startracker mode", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")

LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="micrometer")
LongParameter	repetition (description="SLICE_INFO: repetition", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
StringParameter	productNotes (description="Product notes", quantity="micrometer")
DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="micrometer")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="micrometer")
Columns	
composite	(description="Absolute pixel response and dark current for CalBlock0")
Metadata	
StringParameter	Band (description="Band of the calibration block")
DateParameter	Start Time (description="Start time of the calibration block")
DateParameter	End Time (description="End time of the calibration block")
Columns	
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="V s-1")
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="none")

3.7.5. PACS Product Level 1 - Spectroscopy slope fitted blue product

<i>product (type="HPSFITBS", description="Spectroscopy slope fitted blue product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="PACS compression algorithm version")
DoubleParameter	algoNumber (description="PACS compression algorithm number")
StringParameter	algorithm (description="PACS compression algorithm description")
DoubleParameter	compNumber (description="PACS compression algorithm number")
StringParameter	compMode (description="PACS compression algorithm model")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")

LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")

DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="Observing mode summary", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")

LongParameter	naifid (description="SSO NAIF identifier (DEPRECATED: use naifId instead)", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration version", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="HSPOT: start time of the observation", quantity="deg")
DoubleParameter	duration (description="HSPOT: Total duration of the observation", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="spectral line/range: wavelength, reps, id", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="Startracker mode", quantity="deg")

BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacsSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
StringParameter	productNotes (description="Product notes", quantity="micrometer")
DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="micrometer")
DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="micrometer")

BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
Columns	
array dataset	(description="null")
Metadata	
Columns	
Double3d	(description="null", quantity="Jy/pixel")
	()
array dataset	Dataset similar to the one above with (name="Ra", description="null")
	()
array dataset	Dataset similar to the one above with (name="Dec", description="null")
	()
array dataset	Dataset similar to the one above with (name="Wave", description="null")
	()
composite dataset	Dataset similar to the one above with (name="History", description="History of product")

3.7.6. PACS Product Level 1 - Spectroscopy slope fitted red product

<i>product (type="HPSFITRS", description="Spectroscopy slope fitted red product")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")

LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="PACS compression algorithm version")
DoubleParameter	algoNumber (description="PACS compression algorithm number")
StringParameter	algorithm (description="PACS compression algorithm description")
DoubleParameter	compNumber (description="PACS compression algorithm number")
StringParameter	compMode (description="PACS compression algorithm model")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")

DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="Observing mode summary", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")

BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="SSO NAIF identifier (DEPRECATED: use naifId instead)", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration version", quantity="deg")

StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="HSPOT: start time of the observation", quantity="deg")
DoubleParameter	duration (description="HSPOT: Total duration of the observation", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="spectral line/range: wavelength, reps, id", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="Startracker mode", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacsSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")

DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
StringParameter	productNotes (description="Product notes", quantity="micrometer")
DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="micrometer")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double3d</i>	(description="null", quantity="Jy/pixel")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Ra", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Dec", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Wave", description="null")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

3.7.7. PACS Product Level 1 - Spectroscopy blue 3d cube product

<i>product</i> (type="HPS3DBS", description="Spectroscopy blue 3d cube product")
<i>Metadata</i>

StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
StringParameter	productNotes (description="Product notes")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="PACS compression algorithm version")
DoubleParameter	algoNumber (description="PACS compression algorithm number")
StringParameter	algorithm (description="PACS compression algorithm description")
DoubleParameter	compNumber (description="PACS compression algorithm number")
StringParameter	compMode (description="PACS compression algorithm model")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")

StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undefined")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")

StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="Observing mode summary", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="SSO NAIF identifier (DEPRECATED: use naifId instead)", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")

StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration version", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="HSPOT: start time of the observation", quantity="deg")
DoubleParameter	duration (description="HSPOT: Total duration of the observation", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="spectral line/range: wavelength, reps, id", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="Startracker mode", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")

StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="micrometer")
DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
Columns	
array dataset	(description="Flux")
Metadata	

<i>Columns</i>	
<i>Double3d</i>	(description="Flux", quantity="Jy/pixel")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="wave", description="Wave-length in micron")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="ra", description="Ra in de-grees")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="dec", description="Dec in de-grees")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

3.7.8. PACS Product Level 1 - Spectroscopy red 3d cube product

<i>product (type="HPS3DRS", description="Spectroscopy red 3d cube product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
StringParameter	productNotes (description="Product notes")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")

DoubleParameter	subType (description="HSPOT: Product subtype: 1:BolRed 2:BolBlue 3:SpecRed 4:SpecBlue")
DoubleParameter	compVersion (description="PACS compression algorithm version")
DoubleParameter	algoNumber (description="PACS compression algorithm number")
StringParameter	algorithm (description="PACS compression algorithm description")
DoubleParameter	compNumber (description="PACS compression algorithm number")
StringParameter	compMode (description="PACS compression algorithm model")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undefined")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")

StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="Observing mode summary", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")

BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="SSO NAIF identifier (DEPRECATED: use naifId instead)", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration version", quantity="deg")

StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="HSPOT: start time of the observation", quantity="deg")
DoubleParameter	duration (description="HSPOT: Total duration of the observation", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="spectral line/range: wavelength, reps, id", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="Startracker mode", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")

LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="micrometer")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
Columns	
array dataset	(description="Flux")
Metadata	
Columns	
Double3d	(description="Flux", quantity="Jy/pixel")
	()
array dataset	Dataset similar to the one above with (name="wave", description="Wavelength in micron")
	()
array dataset	Dataset similar to the one above with (name="ra", description="Ra in degrees")
	()
array dataset	Dataset similar to the one above with (name="dec", description="Dec in degrees")
	()
composite dataset	Dataset similar to the one above with (name="History", description="History of product")

3.7.9. PACS Product Level 1 - Spectroscopy blue calibration product

<i>product (type="HPSCALB", description="Spectroscopy blue calibration product")</i>	
Metadata	

StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="PACS compression algorithm version")
DoubleParameter	algoNumber (description="PACS compression algorithm number")
StringParameter	algorithm (description="PACS compression algorithm description")
DoubleParameter	compNumber (description="PACS compression algorithm number")
StringParameter	compMode (description="PACS compression algorithm model")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")

LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undefined")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")

DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="Observing mode summary", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")

DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="SSO NAIF identifier (DEPRECATED: use naifId instead)", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration version", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="HSPOT: start time of the observation", quantity="deg")
DoubleParameter	duration (description="HSPOT: Total duration of the observation", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="spectral line/range: wavelength, reps, id", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")

DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="Startracker mode", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacsSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")

StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	repetition (description="SLICE_INFO: repetition", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
StringParameter	productNotes (description="Product notes", quantity="micrometer")
DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="micrometer")
DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="micrometer")
Columns	
compos- ite	(description="Absolute pixel response and dark current for CalBlock0")
Metadata	
StringParameter	Band (description="Band of the calibration block")
DateParameter	Start Time (description="Start time of the calibration block")
DateParameter	End Time (description="End time of the calibration block")
Columns	
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="none")
array dataset	(description="null")
Metadata	

<i>Columns</i>	
<i>Double2d</i>	(description="null", quantity="V s-1")
<i>array</i> <i>dataset</i>	(description="null")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double2d</i>	(description="null", quantity="none")

3.7.10. PACS Product Level 1 - Spectroscopy red calibration product

<i>product</i> (type="HPSCALR", description="Spectroscopy red calibration product")	
<i>Metada- ta</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="PACS compression algorithm version")

DoubleParameter	algoNumber (description="PACS compression algorithm number")
StringParameter	algorithm (description="PACS compression algorithm description")
DoubleParameter	compNumber (description="PACS compression algorithm number")
StringParameter	compMode (description="PACS compression algorithm model")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undefined")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")

StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="Observing mode summary", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")

LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="SSO NAIF identifier (DEPRECATED: use naifId instead)", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")

StringParameter	missionConfiguration (description="Mission Configuration version", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="HSPOT: start time of the observation", quantity="deg")
DoubleParameter	duration (description="HSPOT: Total duration of the observation", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="spectral line/range: wavelength, reps, id", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="Startracker mode", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacsSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")

BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	repetition (description="SLICE_INFO: repetition", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
StringParameter	productNotes (description="Product notes", quantity="micrometer")
DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="micrometer")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="micrometer")
Columns	
compose	(description="Absolute pixel response and dark current for CalBlock0")
Metadata	
StringParameter	Band (description="Band of the calibration block")
DateParameter	Start Time (description="Start time of the calibration block")
DateParameter	End Time (description="End time of the calibration block")
Columns	
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="none")

<i>array dataset</i>	(<i>description="null"</i>)
<i>Metadata</i>	
<i>Columns</i>	
<i>Double2d</i>	(<i>description="null", quantity="V s-1"</i>)
<i>array dataset</i>	(<i>description="null"</i>)
<i>Metadata</i>	
<i>Columns</i>	
<i>Double2d</i>	(<i>description="null", quantity="none"</i>)

3.7.11. PACS Product Level 1 - Spectroscopy slope fitted blue product

<i>product (type="HPSFITBS", description="Spectroscopy slope fitted blue product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1:BolRed 2:BolBlue 3:SpecRed 4:SpecBlue")
DoubleParameter	compVersion (description="PACS compression algorithm version")
DoubleParameter	algoNumber (description="PACS compression algorithm number")
StringParameter	algorithm (description="PACS compression algorithm description")

DoubleParameter	compNumber (description="PACS compression algorithm number")
StringParameter	compMode (description="PACS compression algorithm model")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undefined")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")

StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="Observing mode summary", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")

DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="SSO NAIF identifier (DEPRECATED: use naifId instead)", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration version", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="HSPOT: start time of the observation", quantity="deg")
DoubleParameter	duration (description="HSPOT: Total duration of the observation", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="spectral line/range: wavelength, reps, id", quantity="s")

LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="Startracker mode", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")

StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
StringParameter	productNotes (description="Product notes", quantity="micrometer")
DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="micrometer")
DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
Columns	
array dataset	(description="null")
Metadata	
Columns	
Double3d	(description="null", quantity="Jy/pixel")
	()
array dataset	Dataset similar to the one above with (name="Ra", description="null")
	()
array dataset	Dataset similar to the one above with (name="Dec", description="null")
	()
array dataset	Dataset similar to the one above with (name="Wave", description="null")
	()
composite dataset	Dataset similar to the one above with (name="History", description="History of product")

3.7.12. PACS Product Level 1 - Spectroscopy slope fitted red product

<i>product (type="HPSFITRS", description="Spectroscopy slope fitted red product")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")

DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="PACS compression algorithm version")
DoubleParameter	algoNumber (description="PACS compression algorithm number")
StringParameter	algorithm (description="PACS compression algorithm description")
DoubleParameter	compNumber (description="PACS compression algorithm number")
StringParameter	compMode (description="PACS compression algorithm model")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undefined")

StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")

StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="Observing mode summary", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="SSO NAIF identifier (DEPRECATED: use naifId instead)", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")

StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration version", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="HSPOT: start time of the observation", quantity="deg")
DoubleParameter	duration (description="HSPOT: Total duration of the observation", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="spectral line/range: wavelength, reps, id", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="Startracker mode", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")

DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
StringParameter	productNotes (description="Product notes", quantity="micrometer")
DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="micrometer")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double3d</i>	(description="null", quantity="Jy/pixel")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Ra", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Dec", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Wave", description="null")
	()

<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

3.7.13. PACS Product Level 1 - Spectroscopy blue 3d cube product

<i>product (type="HPS3DBS", description="Spectroscopy blue 3d cube product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")

LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")

DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")

DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")

DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="micrometer")

DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
Columns	
array dataset	(description="Flux")
Metadata	
Columns	
Double3d	(description="Flux", quantity="Jy/pixel")
	()
array dataset	Dataset similar to the one above with (name="wave", description="Wavelength in micron")
	()
array dataset	Dataset similar to the one above with (name="ra", description="Ra in degrees")
	()
array dataset	Dataset similar to the one above with (name="dec", description="Dec in degrees")
	()
composite dataset	Dataset similar to the one above with (name="History", description="History of product")

3.7.14. PACS Product Level 1 - Spectroscopy red 3d cube product

<i>product (type="HPS3DRS", description="Spectroscopy red 3d cube product")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")

StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1:BoIRed 2:BoIBlue 3:SpecRed 4:SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")

StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")

StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")

StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacsSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")

StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="micrometer")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
Columns	
array dataset	(description="Flux")
Metadata	
Columns	
Double3d	(description="Flux", quantity="Jy/pixel")
	()
array dataset	Dataset similar to the one above with (name="wave", description="Wavelength in micron")
	()
array dataset	Dataset similar to the one above with (name="ra", description="Ra in degrees")
	()
array dataset	Dataset similar to the one above with (name="dec", description="Dec in degrees")
	()
composite dataset	Dataset similar to the one above with (name="History", description="History of product")

3.7.15. PACS Product Level 1 - Spectroscopy blue calibration product

<i>product (type="HPSCALB", description="Spectroscopy blue calibration product")</i>	
<i>Meta-</i> <i>data</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")

LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")

DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")

BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")

LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")

StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	repetition (description="SLICE_INFO: repetition", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="micrometer")
DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="micrometer")
Columns	
compos- ite	(description="Absolute pixel response and dark current for CalBlock0")
Metadata	
StringParameter	Band (description="Band of the calibration block")
DateParameter	Start Time (description="Start time of the calibration block")
DateParameter	End Time (description="End time of the calibration block")
Columns	
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="V s-1")
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="none")

3.7.16. PACS Product Level 1 - Spectroscopy red calibration product

<i>product (type="HPSCALR", description="Spectroscopy red calibration product")</i>	
Meta- data	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")

LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")

DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")

BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")

LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")

StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	repetition (description="SLICE_INFO: repetition", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="micrometer")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="micrometer")
Columns	
compose	(description="Absolute pixel response and dark current for CalBlock0")
Metadata	
StringParameter	Band (description="Band of the calibration block")
DateParameter	Start Time (description="Start time of the calibration block")
DateParameter	End Time (description="End time of the calibration block")
Columns	
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="V s-1")
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="none")

3.7.17. PACS Product Level 1 - Spectroscopy slope fitted blue product

<i>product (type="HPSFITBS", description="Spectroscopy slope fitted blue product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")

LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")

DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")

LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")

StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="micrometer")
DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
Columns	

<i>array dataset</i>	(<i>description="null"</i>)
<i>Metadata</i>	
<i>Columns</i>	
<i>Double3d</i>	(<i>description="null", quantity="Jy/pixel"</i>)
	()
<i>array dataset</i>	Dataset similar to the one above with (<i>name="Ra", description="null"</i>)
	()
<i>array dataset</i>	Dataset similar to the one above with (<i>name="Dec", description="null"</i>)
	()
<i>array dataset</i>	Dataset similar to the one above with (<i>name="Wave", description="null"</i>)
	()
<i>composite dataset</i>	Dataset similar to the one above with (<i>name="History", description="History of product"</i>)

3.7.18. PACS Product Level 1 - Spectroscopy slope fitted red product

<i>product (type="HPSFITRS", description="Spectroscopy slope fitted red product")</i>	
<i>Metadata</i>	
StringParameter	type (<i>description="Product Type Identification"</i>)
StringParameter	creator (<i>description="Generator of this product"</i>)
DateParameter	creationDate (<i>description="Creation date of this product"</i>)
StringParameter	description (<i>description="Name of this product"</i>)
StringParameter	instrument (<i>description="Instrument attached to this product"</i>)
StringParameter	modelName (<i>description="Model name attached to this product"</i>)
DateParameter	startDate (<i>description="Start date of the observation"</i>)
DateParameter	endDate (<i>description="End date of the observation"</i>)
StringParameter	formatVersion (<i>description="Version of product format"</i>)
LongParameter	detRow (<i>description="Number of detector rows"</i>)
LongParameter	detCol (<i>description="Number of detector columns"</i>)
StringParameter	camName (<i>description="Name of the Camera"</i>)
LongParameter	relTimeOffset (<i>description="Offset btwn PACS internal CRDC counter and on-board time"</i>)
LongParameter	apid (<i>description="Application Programme Identifier"</i>)
DoubleParameter	subType (<i>description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue"</i>)

DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")

DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")

BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")

StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="micrometer")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="micrometer")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")

StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="micrometer")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
Columns	
array dataset	(description="null")
Metadata	
Columns	
Double3d	(description="null", quantity="Jy/pixel")
	()
array dataset	Dataset similar to the one above with (name="Ra", description="null")
	()
array dataset	Dataset similar to the one above with (name="Dec", description="null")
	()
array dataset	Dataset similar to the one above with (name="Wave", description="null")
	()
composite dataset	Dataset similar to the one above with (name="History", description="History of product")

3.8. PACS Spectroscopy Level-2 products

3.8.1. PACS Product Level 2 - HRS Spectrum Dataset

<i>product (type="herschel.ia.dataset.Product(HifiSpectrumDataset)", description="HRS Spectrum Dataset")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")

StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of channels")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")

StringParameter	level (description="Pipeline level", quantity="deg")
BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
LongParameter	loadInterval (description="Load period in seconds", quantity="s")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	pattAngle (description="Spectral map rotation angle", quantity="degrees")
DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")
DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
LongParameter	n_cycles (description="Number of cycle in the map", quantity="degrees")
LongParameter	n_linesperscan (description="Number of lines per scan", quantity="degrees")
LongParameter	superSampling (description="Supersampling factor in the map", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")

BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
BooleanParameter	Valid (description="HRS spectrum contains at least one subband", quantity="degrees")
LongParameter	subbands (description="Number of subbands", quantity="degrees")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="degrees")
StringParameter	wavename (description="Actual name of the WaveColumn", quantity="degrees")
DoubleParameter	channelSpacing (description="Delta of frequency in MHz between 2 points of a HRS spectrum", quantity="MHz")
DoubleParameter	resolution (description="HRS resolution when a Hanning windowing is used, i.e. the channelSpacing * 2", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrumDataset", quantity="MHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")
DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="GHz")
DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="GHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="m2")
StringParameter	temperatureScale (description="Temperature scale in use", quantity="m2")
StringParameter	sideband (description="status: upper or lower side band", quantity="m2")
StringParameter	gainMethod (description="Method used to parametrize the sideband gains coefficients.", quantity="m2")
DoubleParameter	lsbGain (description="Sideband gain level applied in the given lower side band spectrum.", quantity="m2")
DoubleParameter	lsbGain_0 (description="Sideband gain polynomial coefficients 0 applied.", quantity="m2")
DoubleParameter	lsbGain_1 (description="Sideband gain polynomial coefficients 1 applied.", quantity="m2")
DoubleParameter	lsbGain_2 (description="Sideband gain polynomial coefficients 2 applied.", quantity="m2")
DoubleParameter	lsbGain_3 (description="Sideband gain polynomial coefficients 3 applied.", quantity="m2")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="m2")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="m2")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="m2")

LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="m2")
DoubleParameter	resolution_resampled (description="Approximate resolution after resampling.", quantity="MHz")
DoubleParameter	frequencyWidth (description="The spacing of the frequency grids after resampling.", quantity="GHz")
DoubleParameter	hpbwAssumed (description="HPBW assumed by doGridding, typically unequal to physical HPBW (metadatum hpbw)", quantity="arcsec")
LongParameter	bbnumber (description="Building Block Number", quantity="arcsec")
StringParameter	fileName (description="filename for exporting purposes", quantity="arcsec")
DoubleParameter	loFreqAvg (description="Average LO frequency Doppler-corrected to freqFrame (SPECSYS)", quantity="GHz")
<i>Columns</i>	
<i>table dataset</i>	(name="0001", description="HRS Spectrum Dataset")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of channels")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")

StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
LongParameter	loadInterval (description="Load period in seconds", quantity="s")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	pattAngle (description="Spectral map rotation angle", quantity="degrees")
DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")
DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
LongParameter	n_cycles (description="Number of cycle in the map", quantity="degrees")
LongParameter	n_linesperscan (description="Number of lines per scan", quantity="degrees")
LongParameter	superSampling (description="Supersampling factor in the map", quantity="degrees")

StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
BooleanParameter	Valid (description="HRS spectrum contains at least one subband", quantity="degrees")
LongParameter	subbands (description="Number of subbands", quantity="degrees")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="degrees")
StringParameter	wavename (description="Actual name of the WaveColumn", quantity="degrees")
DoubleParameter	channelSpacing (description="Delta of frequency in MHz between 2 points of a HRS spectrum", quantity="MHz")
DoubleParameter	resolution (description="HRS resolution when a Hanning windowing is used, i.e. the channelSpacing * 2", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrum-Dataset", quantity="MHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")

DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="GHz")
DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="GHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="m2")
StringParameter	temperatureScale (description="Temperature scale in use", quantity="m2")
StringParameter	sideband (description="status: upper or lower side band", quantity="m2")
StringParameter	gainMethod (description="Method used to parametrize the sideband gains coefficients.", quantity="m2")
DoubleParameter	lsbGain (description="Sideband gain level applied in the given lower side band spectrum.", quantity="m2")
DoubleParameter	lsbGain_0 (description="Sideband gain polynomial coefficients 0 applied.", quantity="m2")
DoubleParameter	lsbGain_1 (description="Sideband gain polynomial coefficients 1 applied.", quantity="m2")
DoubleParameter	lsbGain_2 (description="Sideband gain polynomial coefficients 2 applied.", quantity="m2")
DoubleParameter	lsbGain_3 (description="Sideband gain polynomial coefficients 3 applied.", quantity="m2")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="m2")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="m2")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="m2")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="m2")
DoubleParameter	resolution_resampled (description="Approximate resolution after resampling.", quantity="MHz")
DoubleParameter	frequencyWidth (description="The spacing of the frequency grids after resampling.", quantity="GHz")
DoubleParameter	hpbwAssumed (description="HPBW assumed by doGridding, typically unequal to physical HPBW (metadatum hpbw)", quantity="arcsec")
LongParameter	bbnumber (description="Building Block Number", quantity="arcsec")
DoubleParameter	loFreqAvg (description="Average LO frequency Doppler-corrected to freqFrame (SPECSYS)", quantity="GHz")
<i>Columns</i>	
<i>Double2d</i>	flux_1 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	lsbfrequency_1 (description="Lower sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_1 (description="null", quantity="none")

<i>Int2d</i>	flag_1 (description="null", quantity="none")
<i>Double2d</i>	flux_2 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	lsbfrequency_2 (description="Lower sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_2 (description="null", quantity="none")
<i>Int2d</i>	flag_2 (description="null", quantity="none")
<i>Int1d</i>	rasterLineNum (description="Raster line number", quantity="1")
<i>Double1d</i>	cmd_chopper (description="Commanded chopper positions", quantity="none")
<i>Double1d</i>	posAngle (description="Position Angle", quantity="deg")
<i>Double1d</i>	ACS_5P_V (description="ACS voltage for +5V", quantity="V")
<i>Int2d</i>	colorIndex (description="null", quantity="none")
<i>Int1d</i>	nodCycleNum (description="Switching/nodding cycle number", quantity="1")
<i>Int1d</i>	bitshift (description="Bit Shift", quantity="none")
<i>Int2d</i>	type (description="null", quantity="none")
<i>Int2d</i>	resolution (description="null", quantity="none")
<i>Bool2d</i>	blockselection (description="Block Selection", quantity="none")
<i>Double1d</i>	ACS_18P_V (description="ACS voltage for +18V", quantity="V")
<i>Double2d</i>	IF_T (description="IF Temperature values", quantity="degC")
<i>String1d</i>	Buffer_S (description="Buffer for ACS integration : BufferA/BufferB", quantity="none")
<i>Double1d</i>	longitudeError (description="longitude errors", quantity="arcsec")
<i>Double1d</i>	ACS_8P_V (description="ACS voltage for +8V", quantity="V")
<i>Int1d</i>	buffer (description="Integration Buffer", quantity="none")
<i>Double1d</i>	IF_5M_V (description="IF voltage for -5V", quantity="V")
<i>Double1d</i>	longitude (description="longitude (RA in equatorial coord)", quantity="deg")
<i>Int1d</i>	sequenceNumber (description="Integration Sequence Number", quantity="none")
<i>Double1d</i>	frequency_monitor (description="LSU Frequency Monitor", quantity="MHz")
<i>Double2d</i>	Attenuators (description="IRM attenuator values : 0-15.5 dB", quantity="dB")
<i>Int1d</i>	scanLineNum (description="Scan line number", quantity="1")
<i>Double1d</i>	DCDC_1P1_C (description="DCDC current value for +1.1V", quantity="A")
<i>Double1d</i>	ACS_Dig_3P3_V (description="ACS voltage for +3.3V (digital)", quantity="V")
<i>Int1d</i>	bbnumber (description="Building Block Number", quantity="none")
<i>Double2d</i>	LO_F (description="LO Frequency values", quantity="MHz")
<i>Double1d</i>	DCDC_18P_C (description="DCDC current value for +18V", quantity="A")
<i>Int1d</i>	bbtype (description="Building Block Type", quantity="none")

<i>Double1d</i>	ACS_Ana_1_3P3_V (description="ACS voltage for +3.3V (analog1)", quantity="V")
<i>Int1d</i>	customMapPointNum (description="Custom map pointing number", quantity="1")
<i>Int2d</i>	sampler (description="null", quantity="none")
<i>Double1d</i>	DCDC_5M_C (description="DCDC current value for -5V", quantity="A")
<i>Int1d</i>	nrbytes (description="Number of Bytes", quantity="none")
<i>Int2d</i>	LO_S (description="Status of the LO : Locked (=1) / Unlocked (=0)", quantity="none")
<i>Int2d</i>	channels (description="null", quantity="none")
<i>Double2d</i>	ACS_T (description="ACS Temperature values", quantity="degC")
<i>Long1d</i>	packetTime (description="Packetization Time", quantity="none")
<i>Double2d</i>	integrationTime (description="Integration duration in seconds", quantity="s")
<i>Int1d</i>	integrations (description="Number of Integrations", quantity="none")
<i>Double1d</i>	Chopper (description="Actual chopper positions", quantity="none")
<i>Double1d</i>	IF_8P_V (description="IF voltage for +8V", quantity="V")
<i>Double2d</i>	hot_cold (description="Hot and cold temperatures of the Blackbody Calibrator", quantity="K")
<i>Double1d</i>	latitude (description="latitude (Decl in equatorial coord)", quantity="deg")
<i>Double1d</i>	ACS_Ana_2_3P3_V (description="ACS voltage for +3.3V (analog2)", quantity="V")
<i>Double2d</i>	DCDC_T (description="DCDC Temperature values", quantity="degC")
<i>Int2d</i>	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")
<i>Double1d</i>	DCDC_5P_C (description="DCDC current value for +5V", quantity="A")
<i>Int2d</i>	duration (description="Integration Duration", quantity="none")
<i>Double1d</i>	MJC_Hor (description="Calibrated mixer junction current, horizontal band 1", quantity="mA")
<i>Double1d</i>	posAngleError (description="Position Angle errors", quantity="arc-sec")
<i>Double1d</i>	DCDC_8P_C (description="DCDC current value for +8V", quantity="A")
<i>Double1d</i>	DCDC_3P3_C (description="DCDC current value for +3.3V", quantity="A")
<i>String1d</i>	Pol_S (description="Polar used : H/V", quantity="none")
<i>Double1d</i>	IF_5P_V (description="IF voltage for +5V", quantity="V")
<i>Int1d</i>	rasterColumnNum (description="Raster Column number", quantity="1")
<i>String1d</i>	Unit_ID_S (description="Unit used : QM/FM", quantity="none")
<i>Int1d</i>	df_transfer (description="DataFrame Transfer Counter", quantity="none")

<i>Double1d</i>	LoFrequency_measured (description="Local Oscillator Frequency", quantity="GHz")
<i>Int2d</i>	cuts (description="null", quantity="none")
<i>Long1d</i>	obsTime (description="Observation Time (corrected)", quantity="none")
<i>Double1d</i>	MJC_Ver (description="Calibrated mixer junction current, vertical band 1", quantity="mA")
<i>Int1d</i>	rowflag (description="null", quantity="none")
<i>Double1d</i>	ACS_Ana_1P1_V (description="ACS voltage for +1.1V (analog)", quantity="V")
<i>String1d</i>	Switch_S (description="Status of the input IF Switch : H/V", quantity="none")
<i>Double1d</i>	IF_18P_V (description="IF voltage for +18V", quantity="V")
<i>Double1d</i>	velocity_hso_3 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	latitudeError (description="latitude errors", quantity="arcsec")
<i>Bool1d</i>	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
<i>Long1d</i>	hkFlag (description="{HF_AV2_G_SIF1_V=17, HF_AH1_MXBIAS_C=0, HF_AH1_MXMG_C=4, HF_AV2_G_SIF3_V=21, HF_AH1_DPACT_V=10, HF_AV2_G_SIF2_V=19, HF_AH2_G_SIF3_V=20, HF_AH2_G_SIF2_V=18, HF_AH2_G_SIF1_V=16, HF_AH2_G_FIF1_V=12, HF_AH2_G_FIF2_V=14, HF_AV1_MXMG_V=7, HF_AP_SCHS_CT=22, HF_AV1_MXBIAS_V=3, HF_AV1_DPACT_C=27, HL_R_M1_1A_C=28, HF_APR_CH_ROT=8, HF_APR_SCC_S_CT=24, HF_AV2_G_FIF1_V=13, HF_AV2_G_FIF2_V=15, HL_R_M1_7A_C=28, HF_AH1_MXMG_V=6, HF_AR_SCHS_CT=23, HF_APR_S2K_CT=25, HL_R_M1_7B_C=28, HF_AH1_MXBIAS_V=2, HF_AV1_MXBIAS_C=1, HF_AV1_MXMG_C=5, HF_DPR_CH_ROT2=9, HF_AH1_DPACT_C=26, HL_R_M2_3B_C=28, HF_AV1_DPACT_V=11}", quantity="none")
<i>Double1d</i>	velocity_hso_1 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	latitude_cmd (description="latitude (Decl in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	velocity_hso_2 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	longitude_cmd (description="longitude (RA in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	ACS_5M_V (description="ACS voltage for -5V", quantity="V")
<i>Double2d</i>	corrVSigma (description="null", quantity="none")
<i>Int2d</i>	LO_F_raw (description="LO Frequency raw values", quantity="MHz")
<i>Double1d</i>	LoFrequency (description="The LO frequency possibly adjusted for Doppler shifts in the data.", quantity="GHz")
<i>Double2d</i>	mSigma (description="null", quantity="none")

<i>DoubleId</i>	tsys_median (description="Median of the Tsys array - subbands concatenated.", quantity="none")
<i>DoubleId</i>	IF_6P_V (description="IF voltage for +6V", quantity="V")
<i>IntId</i>	hk_transfer (description="hk_transfer", quantity="none")

3.8.2. PACS Product Level 2 - HRS Spectrum Dataset

<i>product (type="herschel.ia.dataset.Product(HifiSpectrumDataset)", description="HRS Spectrum Dataset")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of channels")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")

StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
LongParameter	loadInterval (description="Load period in seconds", quantity="s")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	pattAngle (description="Spectral map rotation angle", quantity="degrees")
DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")
DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
LongParameter	n_cycles (description="Number of cycle in the map", quantity="degrees")
LongParameter	n_linesperscan (description="Number of lines per scan", quantity="degrees")
LongParameter	superSampling (description="Supersampling factor in the map", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")

LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
BooleanParameter	Valid (description="HRS spectrum contains at least one subband", quantity="degrees")
LongParameter	subbands (description="Number of subbands", quantity="degrees")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="degrees")
StringParameter	wavename (description="Actual name of the WaveColumn", quantity="degrees")
DoubleParameter	channelSpacing (description="Delta of frequency in MHz between 2 points of a HRS spectrum", quantity="MHz")
DoubleParameter	resolution (description="HRS resolution when a Hanning windowing is used, i.e. the channelSpacing * 2", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrumDataset", quantity="MHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")
DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="GHz")
DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="GHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="m2")
StringParameter	temperatureScale (description="Temperature scale in use", quantity="m2")

StringParameter	sideband (description="status: upper or lower side band", quantity="m2")
StringParameter	gainMethod (description="Method used to parametrize the sideband gains coefficients.", quantity="m2")
DoubleParameter	usbGain (description="Sideband gain level applied in the given upper side band spectrum.", quantity="m2")
DoubleParameter	usbGain_0 (description="Sideband gain polynomial coefficients 0 applied.", quantity="m2")
DoubleParameter	usbGain_1 (description="Sideband gain polynomial coefficients 1 applied.", quantity="m2")
DoubleParameter	usbGain_2 (description="Sideband gain polynomial coefficients 2 applied.", quantity="m2")
DoubleParameter	usbGain_3 (description="Sideband gain polynomial coefficients 3 applied.", quantity="m2")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="m2")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="m2")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="m2")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="m2")
DoubleParameter	resolution_resampled (description="Approximate resolution after resampling.", quantity="MHz")
DoubleParameter	frequencyWidth (description="The spacing of the frequency grids after resampling.", quantity="GHz")
DoubleParameter	hpbwAssumed (description="HPBW assumed by doGridding, typically unequal to physical HPBW (metadatum hpbw)", quantity="arcsec")
LongParameter	bbnumber (description="Building Block Number", quantity="arcsec")
StringParameter	fileName (description="filename for exporting purposes", quantity="arcsec")
DoubleParameter	loFreqAvg (description="Average LO frequency Doppler-corrected to freqFrame (SPECSYS)", quantity="GHz")
<i>Columns</i>	
<i>table dataset</i>	(name="0001", description="HRS Spectrum Dataset")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of channels")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")

StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
LongParameter	loadInterval (description="Load period in seconds", quantity="s")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")

DoubleParameter	pattAngle (description="Spectral map rotation angle", quantity="degrees")
DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")
DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
LongParameter	n_cycles (description="Number of cycle in the map", quantity="degrees")
LongParameter	n_linesperscan (description="Number of lines per scan", quantity="degrees")
LongParameter	superSampling (description="Supersampling factor in the map", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")

BooleanParameter	Valid (description="HRS spectrum contains at least one subband", quantity="degrees")
LongParameter	subbands (description="Number of subbands", quantity="degrees")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="degrees")
StringParameter	wavename (description="Actual name of the WaveColumn", quantity="degrees")
DoubleParameter	channelSpacing (description="Delta of frequency in MHz between 2 points of a HRS spectrum", quantity="MHz")
DoubleParameter	resolution (description="HRS resolution when a Hanning windowing is used, i.e. the channelSpacing * 2", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrum-Dataset", quantity="MHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")
DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="GHz")
DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="GHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="m2")
StringParameter	temperatureScale (description="Temperature scale in use", quantity="m2")
StringParameter	sideband (description="status: upper or lower side band", quantity="m2")
StringParameter	gainMethod (description="Method used to parametrize the sideband gains coefficients.", quantity="m2")
DoubleParameter	usbGain (description="Sideband gain level applied in the given upper side band spectrum.", quantity="m2")
DoubleParameter	usbGain_0 (description="Sideband gain polynomial coefficients 0 applied.", quantity="m2")
DoubleParameter	usbGain_1 (description="Sideband gain polynomial coefficients 1 applied.", quantity="m2")
DoubleParameter	usbGain_2 (description="Sideband gain polynomial coefficients 2 applied.", quantity="m2")
DoubleParameter	usbGain_3 (description="Sideband gain polynomial coefficients 3 applied.", quantity="m2")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="m2")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="m2")

LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="m2")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="m2")
DoubleParameter	resolution_resampled (description="Approximate resolution after resampling.", quantity="MHz")
DoubleParameter	frequencyWidth (description="The spacing of the frequency grids after resampling.", quantity="GHz")
DoubleParameter	hpbwAssumed (description="HPBW assumed by doGridding, typically unequal to physical HPBW (metadatum hpbw)", quantity="arcsec")
LongParameter	bbnumber (description="Building Block Number", quantity="arcsec")
DoubleParameter	loFreqAvg (description="Average LO frequency Doppler-corrected to freqFrame (SPECSYS)", quantity="GHz")
<i>Columns</i>	
<i>Double2d</i>	flux_1 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	usbfrequency_1 (description="Upper sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_1 (description="null", quantity="none")
<i>Int2d</i>	flag_1 (description="null", quantity="none")
<i>Double2d</i>	flux_2 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	usbfrequency_2 (description="Upper sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_2 (description="null", quantity="none")
<i>Int2d</i>	flag_2 (description="null", quantity="none")
<i>Int1d</i>	rasterLineNum (description="Raster line number", quantity="1")
<i>Double1d</i>	cmd_chopper (description="Commanded chopper positions", quantity="none")
<i>Double1d</i>	posAngle (description="Position Angle", quantity="deg")
<i>Double1d</i>	ACS_5P_V (description="ACS voltage for +5V", quantity="V")
<i>Int2d</i>	colorIndex (description="null", quantity="none")
<i>Int1d</i>	nodCycleNum (description="Switching/nodding cycle number", quantity="1")
<i>Int1d</i>	bitshift (description="Bit Shift", quantity="none")
<i>Int2d</i>	type (description="null", quantity="none")
<i>Int2d</i>	resolution (description="null", quantity="none")
<i>Bool2d</i>	blockselection (description="Block Selection", quantity="none")
<i>Double1d</i>	ACS_18P_V (description="ACS voltage for +18V", quantity="V")
<i>Double2d</i>	IF_T (description="IF Temperature values", quantity="degC")
<i>String1d</i>	Buffer_S (description="Buffer for ACS integration : BufferA/BufferB", quantity="none")
<i>Double1d</i>	longitudeError (description="Longitude errors", quantity="arcsec")
<i>Double1d</i>	ACS_8P_V (description="ACS voltage for +8V", quantity="V")
<i>Int1d</i>	buffer (description="Integration Buffer", quantity="none")
<i>Double1d</i>	IF_5M_V (description="IF voltage for -5V", quantity="V")

<i>Double1d</i>	longitude (description="longitude (RA in equatorial coord)", quantity="deg")
<i>Int1d</i>	sequenceNumber (description="Integration Sequence Number", quantity="none")
<i>Double1d</i>	frequency_monitor (description="LSU Frequency Monitor", quantity="MHz")
<i>Double2d</i>	Attenuators (description="IRM attenuator values : 0-15.5 dB", quantity="dB")
<i>Int1d</i>	scanLineNum (description="Scan line number", quantity="1")
<i>Double1d</i>	DCDC_1P1_C (description="DCDC current value for +1.1V", quantity="A")
<i>Double1d</i>	ACS_Dig_3P3_V (description="ACS voltage for +3.3V (digital)", quantity="V")
<i>Int1d</i>	bbnumber (description="Building Block Number", quantity="none")
<i>Double2d</i>	LO_F (description="LO Frequency values", quantity="MHz")
<i>Double1d</i>	DCDC_18P_C (description="DCDC current value for +18V", quantity="A")
<i>Int1d</i>	bbtype (description="Building Block Type", quantity="none")
<i>Double1d</i>	ACS_Ana_1_3P3_V (description="ACS voltage for +3.3V (analog1)", quantity="V")
<i>Int1d</i>	customMapPointNum (description="Custom map pointing number", quantity="1")
<i>Int2d</i>	sampler (description="null", quantity="none")
<i>Double1d</i>	DCDC_5M_C (description="DCDC current value for -5V", quantity="A")
<i>Int1d</i>	nrbytes (description="Number of Bytes", quantity="none")
<i>Int2d</i>	LO_S (description="Status of the LO : Locked (=1) / Unlocked (=0)", quantity="none")
<i>Int2d</i>	channels (description="null", quantity="none")
<i>Double2d</i>	ACS_T (description="ACS Temperature values", quantity="degC")
<i>Long1d</i>	packetTime (description="Packetization Time", quantity="none")
<i>Double2d</i>	integrationTime (description="Integration duration in seconds", quantity="s")
<i>Int1d</i>	integrations (description="Number of Integrations", quantity="none")
<i>Double1d</i>	Chopper (description="Actual chopper positions", quantity="none")
<i>Double1d</i>	IF_8P_V (description="IF voltage for +8V", quantity="V")
<i>Double2d</i>	hot_cold (description="Hot and cold temperatures of the Blackbody Calibrator", quantity="K")
<i>Double1d</i>	latitude (description="latitude (Decl in equatorial coord)", quantity="deg")
<i>Double1d</i>	ACS_Ana_2_3P3_V (description="ACS voltage for +3.3V (analog2)", quantity="V")
<i>Double2d</i>	DCDC_T (description="DCDC Temperature values", quantity="degC")
<i>Int2d</i>	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")

<i>Double1d</i>	DCDC_5P_C (description="DCDC current value for +5V", quantity="A")
<i>Int2d</i>	duration (description="Integration Duration", quantity="none")
<i>Double1d</i>	MJC_Hor (description="Calibrated mixer junction current, horizontal band 1", quantity="mA")
<i>Double1d</i>	posAngleError (description="Position Angle errors", quantity="arc-sec")
<i>Double1d</i>	DCDC_8P_C (description="DCDC current value for +8V", quantity="A")
<i>Double1d</i>	DCDC_3P3_C (description="DCDC current value for +3.3V", quantity="A")
<i>String1d</i>	Pol_S (description="Polar used : H/V", quantity="none")
<i>Double1d</i>	IF_5P_V (description="IF voltage for +5V", quantity="V")
<i>Int1d</i>	rasterColumnNum (description="Raster Column number", quantity="1")
<i>String1d</i>	Unit_ID_S (description="Unit used : QM/FM", quantity="none")
<i>Int1d</i>	df_transfer (description="DataFrame Transfer Counter", quantity="none")
<i>Double1d</i>	LoFrequency_measured (description="Local Oscillator Frequency", quantity="GHz")
<i>Int2d</i>	cuts (description="null", quantity="none")
<i>Long1d</i>	obsTime (description="Observation Time (corrected)", quantity="none")
<i>Double1d</i>	MJC_Ver (description="Calibrated mixer junction current, vertical band 1", quantity="mA")
<i>Int1d</i>	rowflag (description="null", quantity="none")
<i>Double1d</i>	ACS_Ana_1P1_V (description="ACS voltage for +1.1V (analog)", quantity="V")
<i>String1d</i>	Switch_S (description="Status of the input IF Switch : H/V", quantity="none")
<i>Double1d</i>	IF_18P_V (description="IF voltage for +18V", quantity="V")
<i>Double1d</i>	velocity_hso_3 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	latitudeError (description="latitude errors", quantity="arcsec")
<i>Bool1d</i>	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
<i>Long1d</i>	hkFlag (description="{HF_AV2_G_SIF1_V=17, HF_AH1_MXBIAS_C=0, HF_AV2_G_SIF3_V=21, HF_AV2_G_SIF2_V=19, HF_AH2_G_SIF3_V=20, HF_AH2_G_SIF2_V=18, HF_AH2_G_SIF1_V=16, HF_AH2_G_FIF1_V=12, HF_AH2_G_FIF2_V=14, HF_AV1_MXMG_V=7, HF_AP_SCHS_CT=22, HF_AV1_MXBIAS_V=3, HF_AV1_DPACT_C=27, HL_R_M1_1A_C=28, HF_APR_CH_ROT=8, HF_APR_SCC_S_CT=24, HF_AV2_G_FIF1_V=13, HF_AV2_G_FIF2_V=15, HL_R_M1_7A_C=28, HF_AH1_MXMG_V=6, HF_AR_SCHS_CT=23, HF_APR_S2K_CT=25, HL_R_M1_7B_C=28, HF_AH1_MXBIAS_V=2, HF_AV1_MXBIAS_C=1,")

	HF_AV1_MXMG_C=5, HF_DPR_CH_ROT2=9, HF_AH1_D-PACT_C=26, HL_R_M2_3B_C=28, HF_AV1_DPACT_V=11}", quantity="none")
<i>Double1d</i>	velocity_hso_1 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	latitude_cmd (description="latitude (Decl in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	velocity_hso_2 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	longitude_cmd (description="longitude (RA in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	ACS_5M_V (description="ACS voltage for -5V", quantity="V")
<i>Double2d</i>	corrVSigma (description="null", quantity="none")
<i>Int2d</i>	LO_F_raw (description="LO Frequency raw values", quantity="MHz")
<i>Double1d</i>	LoFrequency (description="The LO frequency possibly adjusted for Doppler shifts in the data.", quantity="GHz")
<i>Double2d</i>	mSigma (description="null", quantity="none")
<i>Double1d</i>	tsys_median (description="Median of the Tsys array - subbands concatenated.", quantity="none")
<i>Double1d</i>	IF_6P_V (description="IF voltage for +6V", quantity="V")
<i>Int1d</i>	hk_transfer (description="hk_transfer", quantity="none")

3.8.3. PACS Product Level 2 - WBS Spectrum Dataset

<i>product (type="herchel.ia.dataset.Product(HifiSpectrumDataset)", description="WBS Spectrum Dataset")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of channels")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")

StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
LongParameter	loadInterval (description="Load period in seconds", quantity="s")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	pattAngle (description="Spectral map rotation angle", quantity="degrees")
DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")

DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
LongParameter	n_cycles (description="Number of cycle in the map", quantity="degrees")
LongParameter	n_linesperscan (description="Number of lines per scan", quantity="degrees")
LongParameter	superSampling (description="Supersampling factor in the map", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
StringParameter	badLoBand_4 (description="bad Lo in band", quantity="degrees")
LongParameter	Pipeline applied (description="Define which pipeline modules have been applied to the data.\u000A bit 0 = not used \u000A bit 1 = Scan count correction \u000A bit 3 = Dark correction \u000A bit 4 = Non Linearity correction \u000A bit 5 = Zero correction \u000A bit 6 = Frequency calibration applied \u000A", quantity="degrees")
BooleanParameter	isMasked (description="Bad Pixels have been flagged", quantity="degrees")

DoubleParameter	resolution (description="Mean resolution from all combs spectra", quantity="MHz")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrumDataset", quantity="MHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")
DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="GHz")
DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="GHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="m2")
StringParameter	temperatureScale (description="Temperature scale in use", quantity="m2")
StringParameter	sideband (description="status: upper or lower side band", quantity="m2")
StringParameter	gainMethod (description="Method used to parametrize the sideband gains coefficients.", quantity="m2")
DoubleParameter	lsbGain (description="Sideband gain level applied in the given lower side band spectrum.", quantity="m2")
DoubleParameter	lsbGain_0 (description="Sideband gain polynomial coefficients 0 applied.", quantity="m2")
DoubleParameter	lsbGain_1 (description="Sideband gain polynomial coefficients 1 applied.", quantity="m2")
DoubleParameter	lsbGain_2 (description="Sideband gain polynomial coefficients 2 applied.", quantity="m2")
DoubleParameter	lsbGain_3 (description="Sideband gain polynomial coefficients 3 applied.", quantity="m2")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="m2")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="m2")
LongParameter	subbandlength_3 (description="Length of subband 3", quantity="m2")
LongParameter	subbandlength_4 (description="Length of subband 4", quantity="m2")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="m2")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="m2")
LongParameter	subbandstart_3 (description="Starting channel for subband 3", quantity="m2")
LongParameter	subbandstart_4 (description="Starting channel for subband 4", quantity="m2")
DoubleParameter	resolution_resampled (description="Approximate resolution after resampling.", quantity="MHz")
DoubleParameter	frequencyWidth (description="The spacing of the frequency grids after resampling.", quantity="GHz")

DoubleParameter	hpbwAssumed (description="HPBW assumed by doGridding, typically unequal to physical HPBW (metadatum hpbw)", quantity="arcsec")
LongParameter	bbnumber (description="Building Block Number", quantity="arcsec")
StringParameter	fileName (description="filename for exporting purposes", quantity="arcsec")
DoubleParameter	loFreqAvg (description="Average LO frequency Doppler-corrected to freqFrame (SPECSYS)", quantity="GHz")
<i>Columns</i>	
<i>table dataset</i>	(name="0001", description="WBS Spectrum Dataset")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of channels")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")

StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
LongParameter	loadInterval (description="Load period in seconds", quantity="s")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	pattAngle (description="Spectral map rotation angle", quantity="degrees")
DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")
DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
LongParameter	n_cycles (description="Number of cycle in the map", quantity="degrees")
LongParameter	n_linesperscan (description="Number of lines per scan", quantity="degrees")
LongParameter	superSampling (description="Supersampling factor in the map", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")

BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
StringParameter	badLoBand_4 (description="bad Lo in band", quantity="degrees")
LongParameter	Pipeline applied (description="Define which pipeline modules have been applied to the data.\u000A bit 0 = not used \u000A bit 1 = Scan count correction \u000A bit 3 = Dark correction \u000A bit 4 = Non Linearity correction \u000A bit 5 = Zero correction \u000A bit 6 = Frequency calibration applied \u000A", quantity="degrees")
BooleanParameter	isMasked (description="Bad Pixels have been flagged", quantity="degrees")
DoubleParameter	resolution (description="Mean resolution from all combs spectra", quantity="MHz")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrum-Dataset", quantity="MHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")
DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="GHz")

DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="GHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="m2")
StringParameter	temperatureScale (description="Temperature scale in use", quantity="m2")
StringParameter	sideband (description="status: upper or lower side band", quantity="m2")
StringParameter	gainMethod (description="Method used to parametrize the sideband gains coefficients.", quantity="m2")
DoubleParameter	lsbGain (description="Sideband gain level applied in the given lower side band spectrum.", quantity="m2")
DoubleParameter	lsbGain_0 (description="Sideband gain polynomial coefficients 0 applied.", quantity="m2")
DoubleParameter	lsbGain_1 (description="Sideband gain polynomial coefficients 1 applied.", quantity="m2")
DoubleParameter	lsbGain_2 (description="Sideband gain polynomial coefficients 2 applied.", quantity="m2")
DoubleParameter	lsbGain_3 (description="Sideband gain polynomial coefficients 3 applied.", quantity="m2")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="m2")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="m2")
LongParameter	subbandlength_3 (description="Length of subband 3", quantity="m2")
LongParameter	subbandlength_4 (description="Length of subband 4", quantity="m2")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="m2")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="m2")
LongParameter	subbandstart_3 (description="Starting channel for subband 3", quantity="m2")
LongParameter	subbandstart_4 (description="Starting channel for subband 4", quantity="m2")
DoubleParameter	resolution_resampled (description="Approximate resolution after resampling.", quantity="MHz")
DoubleParameter	frequencyWidth (description="The spacing of the frequency grids after resampling.", quantity="GHz")
DoubleParameter	hpbwAssumed (description="HPBW assumed by doGridding, typically unequal to physical HPBW (metadatum hpbw)", quantity="arcsec")
LongParameter	bbnumber (description="Building Block Number", quantity="arcsec")
DoubleParameter	loFreqAvg (description="Average LO frequency Doppler-corrected to freqFrame (SPECSYS)", quantity="GHz")
Columns	

<i>Double2d</i>	flux_1 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	lsbfrequency_1 (description="Lower sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_1 (description="null", quantity="none")
<i>Int2d</i>	flag_1 (description="null", quantity="none")
<i>Double2d</i>	flux_2 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	lsbfrequency_2 (description="Lower sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_2 (description="null", quantity="none")
<i>Int2d</i>	flag_2 (description="null", quantity="none")
<i>Double2d</i>	flux_3 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	lsbfrequency_3 (description="Lower sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_3 (description="null", quantity="none")
<i>Int2d</i>	flag_3 (description="null", quantity="none")
<i>Double2d</i>	flux_4 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	lsbfrequency_4 (description="Lower sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_4 (description="null", quantity="none")
<i>Int2d</i>	flag_4 (description="null", quantity="none")
<i>Int1d</i>	rasterLineNum (description="Raster line number", quantity="1")
<i>Double1d</i>	cmd_chopper (description="Commanded chopper positions", quantity="none")
<i>Double1d</i>	posAngle (description="Position Angle", quantity="deg")
<i>Int1d</i>	nodCycleNum (description="Switching/nodding cycle number", quantity="1")
<i>Int1d</i>	bitshift (description="Bit Shift", quantity="none")
<i>Double1d</i>	longitudeError (description="Longitude errors", quantity="arcsec")
<i>Int1d</i>	buffer (description="Integration Buffer", quantity="none")
<i>Double1d</i>	longitude (description="Longitude (RA in equatorial coord)", quantity="deg")
<i>Int1d</i>	sequenceNumber (description="Integration Sequence Number", quantity="none")
<i>Double1d</i>	frequency_monitor (description="LSU Frequency Monitor", quantity="MHz")
<i>Int1d</i>	scanLineNum (description="Scan line number", quantity="1")
<i>Int1d</i>	bbnumber (description="Building Block Number", quantity="none")
<i>Int1d</i>	bbtype (description="Building Block Type", quantity="none")
<i>Int1d</i>	customMapPointNum (description="Custom map pointing number", quantity="1")
<i>Int1d</i>	nrbytes (description="Number of Bytes", quantity="none")
<i>Long1d</i>	packetTime (description="Packetization Time", quantity="none")
<i>Int2d</i>	Band_ATT (description="null", quantity="none")
<i>Double1d</i>	integrationTime (description="Integration duration in seconds", quantity="s")

<i>Int1d</i>	integrations (description="Number of Integrations", quantity="none")
<i>Double1d</i>	Chopper (description="Actual chopper positions", quantity="none")
<i>Double2d</i>	hot_cold (description="Hot and cold temperatures of the Blackbody Calibrator", quantity="K")
<i>Double1d</i>	latitude (description="latitude (Decl in equatorial coord)", quantity="deg")
<i>Int2d</i>	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")
<i>Double1d</i>	MJC_Hor (description="Calibrated mixer junction current, horizontal band 1", quantity="mA")
<i>Double1d</i>	posAngleError (description="Position Angle errors", quantity="arc-sec")
<i>Double3d</i>	dark (description="Dark Current Data", quantity="none")
<i>Int1d</i>	scancount (description="Integrated Scan Count", quantity="none")
<i>Int1d</i>	rasterColumnNum (description="Raster Column number", quantity="1")
<i>Int1d</i>	df_transfer (description="DataFrame Transfer Counter", quantity="none")
<i>Double1d</i>	LoFrequency_measured (description="Local Oscillator Frequency", quantity="GHz")
<i>Long1d</i>	obsTime (description="Observation Time", quantity="none")
<i>Double1d</i>	MJC_Ver (description="Calibrated mixer junction current, vertical band 1", quantity="mA")
<i>Int1d</i>	rowflag (description="null", quantity="none")
<i>Int1d</i>	IN_ATT (description="null", quantity="none")
<i>Double1d</i>	velocity_hso_3 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	latitudeError (description="latitude errors", quantity="arcsec")
<i>Bool1d</i>	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
<i>Long1d</i>	hkFlag (description="{HF_AV2_G_SIF1_V=17, HF_AH1_MXBIAS_C=0, HF_AV2_G_SIF3_V=21, HF_AH1_DPACT_V=10, HF_AV2_G_SIF2_V=19, HF_AH2_G_SIF3_V=20, HF_AH2_G_SIF2_V=18, HF_AH2_G_SIF1_V=16, HF_AH2_G_FIF1_V=12, HF_AH2_G_FIF2_V=14, HF_AV1_MXMG_V=7, HF_AP_SCHS_CT=22, HF_AV1_MXBIAS_V=3, HF_AV1_DPACT_C=27, HL_R_M1_1A_C=28, HF_APR_CH_ROT=8, HF_APR_SCCS_CT=24, HF_AV2_G_FIF1_V=13, HF_AV2_G_FIF2_V=15, HL_R_M1_7A_C=28, HF_AH1_MXMG_V=6, HF_AR_SCHS_CT=23, HF_APR_S2K_CT=25, HL_R_M1_7B_C=28, HF_AH1_MXBIAS_V=2, HF_AV1_MXBIAS_C=1, HF_AV1_MXMG_C=5, HF_DPR_CH_ROT2=9, HF_AH1_DPACT_C=26, HL_R_M2_3B_C=28, HF_AV1_DPACT_V=11}", quantity="none")
<i>Double1d</i>	velocity_hso_1 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")

<i>Double1d</i>	latitude_cmd (description="latitude (Decl in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	velocity_hso_2 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	longitude_cmd (description="longitude (RA in equatorial coord) average H and V", quantity="deg")
<i>Int2d</i>	badLo (description="bit 0=Bad LO; bit 1=Weak_spur; bit 2=Strong_spur; bit 3=Strong_instability; bit 4=IF_saturation;", quantity="none")
<i>Double1d</i>	LoFrequency (description="The LO frequency possibly adjusted for Doppler shifts in the data.", quantity="GHz")
<i>Double1d</i>	tsys_median (description="Median of the Tsys array - subbands concatenated.", quantity="none")
<i>Int1d</i>	hk_transfer (description="hk_transfer", quantity="none")

3.8.4. PACS Product Level 2 - WBS Spectrum Dataset

<i>product (type="herschel.ia.dataset.Product(HifiSpectrumDataset)", description="WBS Spectrum Dataset")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of channels")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")

LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
LongParameter	loadInterval (description="Load period in seconds", quantity="s")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	pattAngle (description="Spectral map rotation angle", quantity="degrees")
DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")
DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
LongParameter	n_cycles (description="Number of cycle in the map", quantity="degrees")
LongParameter	n_linesperscan (description="Number of lines per scan", quantity="degrees")

LongParameter	superSampling (description="Supersampling factor in the map", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
StringParameter	badLoBand_4 (description="bad Lo in band", quantity="degrees")
LongParameter	Pipeline applied (description="Define which pipeline modules have been applied to the data.\u000A bit 0 = not used \u000A bit 1 = Scan count correction \u000A bit 3 = Dark correction \u000A bit 4 = Non Linearity correction \u000A bit 5 = Zero correction \u000A bit 6 = Frequency calibration applied \u000A", quantity="degrees")
BooleanParameter	isMasked (description="Bad Pixels have been flagged", quantity="degrees")
DoubleParameter	resolution (description="Mean resolution from all combs spectra", quantity="MHz")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrumDataset", quantity="MHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")

DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="GHz")
DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="GHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="m2")
StringParameter	temperatureScale (description="Temperature scale in use", quantity="m2")
StringParameter	sideband (description="status: upper or lower side band", quantity="m2")
StringParameter	gainMethod (description="Method used to parametrize the sideband gains coefficients.", quantity="m2")
DoubleParameter	usbGain (description="Sideband gain level applied in the given upper side band spectrum.", quantity="m2")
DoubleParameter	usbGain_0 (description="Sideband gain polynomial coefficients 0 applied.", quantity="m2")
DoubleParameter	usbGain_1 (description="Sideband gain polynomial coefficients 1 applied.", quantity="m2")
DoubleParameter	usbGain_2 (description="Sideband gain polynomial coefficients 2 applied.", quantity="m2")
DoubleParameter	usbGain_3 (description="Sideband gain polynomial coefficients 3 applied.", quantity="m2")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="m2")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="m2")
LongParameter	subbandlength_3 (description="Length of subband 3", quantity="m2")
LongParameter	subbandlength_4 (description="Length of subband 4", quantity="m2")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="m2")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="m2")
LongParameter	subbandstart_3 (description="Starting channel for subband 3", quantity="m2")
LongParameter	subbandstart_4 (description="Starting channel for subband 4", quantity="m2")
DoubleParameter	resolution_resampled (description="Approximate resolution after resampling.", quantity="MHz")
DoubleParameter	frequencyWidth (description="The spacing of the frequency grids after resampling.", quantity="GHz")
DoubleParameter	hpbwAssumed (description="HPBW assumed by doGridding, typically unequal to physical HPBW (metadatum hpbw)", quantity="arcsec")
LongParameter	bbnumber (description="Building Block Number", quantity="arcsec")
StringParameter	fileName (description="filename for exporting purposes", quantity="arcsec")
DoubleParameter	loFreqAvg (description="Average LO frequency Doppler-corrected to freqFrame (SPECSYS)", quantity="GHz")
<i>Columns</i>	
<i>table dataset</i>	(name="0001", description="WBS Spectrum Dataset")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")

StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	apid (description="Application Programme Identifier")
LongParameter	obsid (description="Observation Identifier")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of channels")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames value = 256")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	obsMode (description="Observation Mode")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	proposal (description="Proposal name")
StringParameter	observer (description="Observer name")
StringParameter	object (description="Target of Observation")
LongParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")

StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	equinox (description="Equinox of reference system", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	version (description="Version of the product", quantity="deg")
StringParameter	level (description="Pipeline level", quantity="deg")
BooleanParameter	nyquistSampling (description="Spectral Map Nyquist sampling requested", quantity="deg")
StringParameter	redshiftType (description="Proposal target redshift type", quantity="deg")
StringParameter	redshiftFrame (description="Proposal target redshift frame", quantity="deg")
LongParameter	loadInterval (description="Load period in seconds", quantity="s")
DoubleParameter	vlsr (description="Proposal target redshift value (km/s if redshiftType is optical or radio)", quantity="redshift or km/s")
DoubleParameter	pattAngle (description="Spectral map rotation angle", quantity="degrees")
DoubleParameter	mapWidthCommanded (description="Spectral map cross-scan length requested", quantity="arcmin")
DoubleParameter	mapHeightCommanded (description="Spectral map scan length requested", quantity="arcmin")
DoubleParameter	decoff (description="Sky reference OFF declination J2000.0", quantity="degrees")
DoubleParameter	raoff (description="Sky reference OFF right ascension J2000.0", quantity="degrees")
LongParameter	n_cycles (description="Number of cycle in the map", quantity="degrees")
LongParameter	n_linesperscan (description="Number of lines per scan", quantity="degrees")
LongParameter	superSampling (description="Supersampling factor in the map", quantity="degrees")
StringParameter	CoordinateSystem (description="Name of reference frame for ephemeris data", quantity="degrees")
StringParameter	orbitEphemerisSourceFile (description="Name of the file from where data was extracted", quantity="degrees")
BooleanParameter	gyroAttSuspicious (description="Suspicious quality of the attitude reconstruction.", quantity="degrees")
LongParameter	rasterLineNum (description="Raster line number", quantity="degrees")
LongParameter	rasterColumnNum (description="Raster Column number", quantity="degrees")
LongParameter	scanLineNum (description="Scan line number", quantity="degrees")
LongParameter	nodCycleNum (description="Switching/nodding cycle number", quantity="degrees")
LongParameter	customMapPointNum (description="Custom map pointing number", quantity="degrees")

BooleanParameter	HF_AV2_G_FIF2_V (description="HK HF_AV2_G_FIF2_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF2 (description="FPU: The values of LnaFIF2 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_FIF1_V (description="HK HF_AV2_G_FIF1_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaFIF1 (description="FPU: The values of LnaFIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF1_V (description="HK HF_AV2_G_SIF1_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF1 (description="FPU: The values of LnaSIF1 are out of limit", quantity="degrees")
BooleanParameter	HF_AV2_G_SIF2_V (description="HK HF_AV2_G_SIF2_V is Out of limit for 24 (100%) spectra", quantity="degrees")
BooleanParameter	LnaSIF2 (description="FPU: The values of LnaSIF2 are out of limit", quantity="degrees")
StringParameter	badLoBand_4 (description="bad Lo in band", quantity="degrees")
LongParameter	Pipeline applied (description="Define which pipeline modules have been applied to the data.\u000A bit 0 = not used \u000A bit 1 = Scan count correction \u000A bit 3 = Dark correction \u000A bit 4 = Non Linearity correction \u000A bit 5 = Zero correction \u000A bit 6 = Frequency calibration applied \u000A", quantity="degrees")
BooleanParameter	isMasked (description="Bad Pixels have been flagged", quantity="degrees")
DoubleParameter	resolution (description="Mean resolution from all combs spectra", quantity="MHz")
BooleanParameter	hassubbands (description="Whether it has subbands", quantity="MHz")
StringParameter	calVersion (description="HIFI calibration version", quantity="MHz")
StringParameter	frequencyGroup (description="Frequency group of this HifiSpectrum-Dataset", quantity="MHz")
DoubleParameter	loFrequency (description="The LO frequency of the source phase", quantity="GHz")
DoubleParameter	loThrow (description="The LO frequency throw", quantity="GHz")
DoubleParameter	apertureEfficiency (description="telescope aperture efficiency", quantity="GHz")
DoubleParameter	beamEff (description="telescope main-beam efficiency (applied value)", quantity="GHz")
DoubleParameter	hpbw (description="azimuthally-averaged half-power beam width", quantity="arcsec")
DoubleParameter	forwardEff (description="telescope forward efficiency (applied value)", quantity="arcsec")
DoubleParameter	aGeom (description="telescope geometric aperture area", quantity="m2")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="m2")
StringParameter	temperatureScale (description="Temperature scale in use", quantity="m2")

StringParameter	sideband (description="status: upper or lower side band", quantity="m2")
StringParameter	gainMethod (description="Method used to parametrize the sideband gains coefficients.", quantity="m2")
DoubleParameter	usbGain (description="Sideband gain level applied in the given upper side band spectrum.", quantity="m2")
DoubleParameter	usbGain_0 (description="Sideband gain polynomial coefficients 0 applied.", quantity="m2")
DoubleParameter	usbGain_1 (description="Sideband gain polynomial coefficients 1 applied.", quantity="m2")
DoubleParameter	usbGain_2 (description="Sideband gain polynomial coefficients 2 applied.", quantity="m2")
DoubleParameter	usbGain_3 (description="Sideband gain polynomial coefficients 3 applied.", quantity="m2")
LongParameter	subbandlength_1 (description="Length of subband 1", quantity="m2")
LongParameter	subbandlength_2 (description="Length of subband 2", quantity="m2")
LongParameter	subbandlength_3 (description="Length of subband 3", quantity="m2")
LongParameter	subbandlength_4 (description="Length of subband 4", quantity="m2")
LongParameter	subbandstart_1 (description="Starting channel for subband 1", quantity="m2")
LongParameter	subbandstart_2 (description="Starting channel for subband 2", quantity="m2")
LongParameter	subbandstart_3 (description="Starting channel for subband 3", quantity="m2")
LongParameter	subbandstart_4 (description="Starting channel for subband 4", quantity="m2")
DoubleParameter	resolution_resampled (description="Approximate resolution after resampling.", quantity="MHz")
DoubleParameter	frequencyWidth (description="The spacing of the frequency grids after resampling.", quantity="GHz")
DoubleParameter	hpbwAssumed (description="HPBW assumed by doGridding, typically unequal to physical HPBW (metadatum hpbw)", quantity="arcsec")
LongParameter	bbnumber (description="Building Block Number", quantity="arcsec")
DoubleParameter	loFreqAvg (description="Average LO frequency Doppler-corrected to freqFrame (SPECSYS)", quantity="GHz")
<i>Columns</i>	
<i>Double2d</i>	flux_1 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	usbfrequency_1 (description="Upper sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_1 (description="null", quantity="none")
<i>Int2d</i>	flag_1 (description="null", quantity="none")
<i>Double2d</i>	flux_2 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	usbfrequency_2 (description="Upper sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_2 (description="null", quantity="none")
<i>Int2d</i>	flag_2 (description="null", quantity="none")

<i>Double2d</i>	flux_3 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	usbfrequency_3 (description="Upper sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_3 (description="null", quantity="none")
<i>Int2d</i>	flag_3 (description="null", quantity="none")
<i>Double2d</i>	flux_4 (description="Antenna Temperature", quantity="K")
<i>Double2d</i>	usbfrequency_4 (description="Upper sideband frequency", quantity="GHz")
<i>Double2d</i>	weight_4 (description="null", quantity="none")
<i>Int2d</i>	flag_4 (description="null", quantity="none")
<i>Int1d</i>	rasterLineNum (description="Raster line number", quantity="1")
<i>Double1d</i>	cmd_chopper (description="Commanded chopper positions", quantity="none")
<i>Double1d</i>	posAngle (description="Position Angle", quantity="deg")
<i>Int1d</i>	nodCycleNum (description="Switching/nodding cycle number", quantity="1")
<i>Int1d</i>	bitshift (description="Bit Shift", quantity="none")
<i>Double1d</i>	longitudeError (description="Longitude errors", quantity="arcsec")
<i>Int1d</i>	buffer (description="Integration Buffer", quantity="none")
<i>Double1d</i>	longitude (description="Longitude (RA in equatorial coord)", quantity="deg")
<i>Int1d</i>	sequenceNumber (description="Integration Sequence Number", quantity="none")
<i>Double1d</i>	frequency_monitor (description="LSU Frequency Monitor", quantity="MHz")
<i>Int1d</i>	scanLineNum (description="Scan line number", quantity="1")
<i>Int1d</i>	bbnumber (description="Building Block Number", quantity="none")
<i>Int1d</i>	bbtype (description="Building Block Type", quantity="none")
<i>Int1d</i>	customMapPointNum (description="Custom map pointing number", quantity="1")
<i>Int1d</i>	nrbytes (description="Number of Bytes", quantity="none")
<i>Long1d</i>	packetTime (description="Packetization Time", quantity="none")
<i>Int2d</i>	Band_ATT (description="null", quantity="none")
<i>Double1d</i>	integrationTime (description="Integration duration in seconds", quantity="s")
<i>Int1d</i>	integrations (description="Number of Integrations", quantity="none")
<i>Double1d</i>	Chopper (description="Actual chopper positions", quantity="none")
<i>Double2d</i>	hot_cold (description="Hot and cold temperatures of the Blackbody Calibrator", quantity="K")
<i>Double1d</i>	latitude (description="Latitude (Decl in equatorial coord)", quantity="deg")
<i>Int2d</i>	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")
<i>Double1d</i>	MJC_Hor (description="Calibrated mixer junction current, horizontal band 1", quantity="mA")

<i>Double1d</i>	posAngleError (description="Position Angle errors", quantity="arc-sec")
<i>Double3d</i>	dark (description="Dark Current Data", quantity="none")
<i>Int1d</i>	scancount (description="Integrated Scan Count", quantity="none")
<i>Int1d</i>	rasterColumnNum (description="Raster Column number", quantity="1")
<i>Int1d</i>	df_transfer (description="DataFrame Transfer Counter", quantity="none")
<i>Double1d</i>	LoFrequency_measured (description="Local Oscillator Frequency", quantity="GHz")
<i>Long1d</i>	obsTime (description="Observation Time", quantity="none")
<i>Double1d</i>	MJC_Ver (description="Calibrated mixer junction current, vertical band 1", quantity="mA")
<i>Int1d</i>	rowflag (description="null", quantity="none")
<i>Int1d</i>	IN_ATT (description="null", quantity="none")
<i>Double1d</i>	velocity_hso_3 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	latitudeError (description="latitude errors", quantity="arcsec")
<i>Bool1d</i>	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
<i>Long1d</i>	hkFlag (description="{HF_AV2_G_SIF1_V=17, HF_AH1_MXBIAS_C=0, HF_AH1_MXMG_C=4, HF_AV2_G_SIF3_V=21, HF_AH1_DPACT_V=10, HF_AV2_G_SIF2_V=19, HF_AH2_G_SIF3_V=20, HF_AH2_G_SIF2_V=18, HF_AH2_G_SIF1_V=16, HF_AH2_G_FIF1_V=12, HF_AH2_G_FIF2_V=14, HF_AV1_MXMG_V=7, HF_AP_SCHS_CT=22, HF_AV1_MXBIAS_V=3, HF_AV1_DPACT_C=27, HL_R_M1_1A_C=28, HF_APR_CH_ROT=8, HF_APR_SCC_S_CT=24, HF_AV2_G_FIF1_V=13, HF_AV2_G_FIF2_V=15, HL_R_M1_7A_C=28, HF_AH1_MXMG_V=6, HF_AR_SCHS_CT=23, HF_APR_S2K_CT=25, HL_R_M1_7B_C=28, HF_AH1_MXBIAS_V=2, HF_AV1_MXBIAS_C=1, HF_AV1_MXMG_C=5, HF_DPR_CH_ROT2=9, HF_AH1_DPACT_C=26, HL_R_M2_3B_C=28, HF_AV1_DPACT_V=11}", quantity="none")
<i>Double1d</i>	velocity_hso_1 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	latitude_cmd (description="latitude (Decl in equatorial coord) average H and V", quantity="deg")
<i>Double1d</i>	velocity_hso_2 (description="Velocity of S/C in SSBC frame.", quantity="km s-1")
<i>Double1d</i>	longitude_cmd (description="longitude (RA in equatorial coord) average H and V", quantity="deg")
<i>Int2d</i>	badLo (description="bit 0=Bad LO; bit 1=Weak_spur; bit 2=Strong_spur; bit 3=Strong_instability; bit 4=IF_saturation;", quantity="none")
<i>Double1d</i>	LoFrequency (description="The LO frequency possibly adjusted for Doppler shifts in the data.", quantity="GHz")

<i>DoubleId</i>	tsys_median (description="Median of the Tsys array - subbands concatenated.", quantity="none")
<i>IntId</i>	hk_transfer (description="hk_transfer", quantity="none")

3.8.5. PACS Product Level 2 - Spectroscopy blue equidistant projected 3d cube product

<i>product (type="HPS3DEQPBS", description="Spectroscopy blue equidistant projected 3d cube product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")

LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")

BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")

DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacsSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="micrometer")
DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")

DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
BooleanParameter	wavelengthGridEquidistant (description="equidistant wavelength grid?", quantity="micrometer")
DoubleParameter	fracMinBinSize (description="fractional size of equidistant wavelength bins compared to min bin size of input cube", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="Flux")
<i>Metadata</i>	
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represents")
StringParameter	cunit3 (description="WCS: Unit axis 3, default="")
DoubleParameter	crpix3 (description="WCS: Reference layer index, unit=Scalar")
DoubleParameter	crval3 (description="WCS: Wavelength, time, ... of reference layer; unit=length,time,...")
DoubleParameter	cdelt3 (description="WCS: Scale in 3rd dimension, unit=Length, Duration, ...")
<i>Columns</i>	
<i>Double3d</i>	(description="Flux", quantity="Jy/pixel")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="error", description="Statistical error on the pixel values")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="coverage", description="Coverage")

3.8.6. PACS Product Level 2 - Spectroscopy red equidistant projected 3d cube product

<i>product (type="HPS3DEQPRS", description="Spectroscopy red equidistant projected 3d cube product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")

StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")

BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")

DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="micrometer")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")

StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
BooleanParameter	wavelengthGridEquidistant (description="equidistant wavelength grid?", quantity="micrometer")
DoubleParameter	fracMinBinSize (description="fractional size of equidistant wavelength bins compared to min bin size of input cube", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="Flux")
<i>Metadata</i>	
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represents")
StringParameter	cunit3 (description="WCS: Unit axis 3, default="")
DoubleParameter	crpix3 (description="WCS: Reference layer index, unit=Scalar")
DoubleParameter	crval3 (description="WCS: Wavelength, time, ... of reference layer; unit=length,time,...")
DoubleParameter	cdelt3 (description="WCS: Scale in 3rd dimension, unit=Length, Duration, ...")
<i>Columns</i>	
<i>Double3d</i>	(description="Flux", quantity="Jy/pixel")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="error", description="Statistical error on the pixel values")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="coverage", description="Coverage")

3.8.7. PACS Product Level 2 - Spectroscopy blue projected 3d cube product

<i>product</i> (type="HPS3DPBS", description="Spectroscopy blue projected 3d cube product")

<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1:BolRed 2:BolBlue 3:SpecRed 4:SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")

DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")

DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")

StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="micrometer")
DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less than 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")

DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
Columns	
array dataset	(description="Flux")
Metadata	
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represents")
StringParameter	cunit3 (description="WCS: Unit axis 3, default="")
Columns	
Double3d	(description="Flux", quantity="Jy/pixel")
	()
array dataset	Dataset similar to the one above with (name="coverage", description="Coverage")
	()
array dataset	Dataset similar to the one above with (name="error", description="Statistical error on the pixel values")

3.8.8. PACS Product Level 2 - Spectroscopy red projected 3d cube product

<i>product (type="HPS3DPRS", description="Spectroscopy red projected 3d cube product")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="null")

LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")

DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")

StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")

StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="micrometer")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="Flux")
<i>Metadata</i>	
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")

DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represents")
StringParameter	cunit3 (description="WCS: Unit axis 3, default="")
<i>Columns</i>	
<i>Double3d</i>	(description="Flux", quantity="Jy/pixel")

3.8.9. PACS Product Level 2 - Spectroscopy blue rebinned 3d cube product

<i>product (type="HPS3DRBS", description="Spectroscopy blue rebinned 3d cube product")</i>	
<i>Meta-</i>	
<i>data</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")

LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")

StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")

StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")

StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")

LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="micrometer")
DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
Columns	

<i>array dataset</i>	(description="Flux")
<i>Metadata</i>	
BooleanParameter	flipyx (description="Flip YX in Display")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represents")
DoubleParameter	crota2 (description="The Rotation angle")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	cunit3 (description="WCS: Unit axis 3, default="")
<i>Columns</i>	
<i>Double3d</i>	(description="Flux", quantity="Jy/pixel")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="ra", description="Right ascension in degrees")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="dec", description="Declination in degrees")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="qualityControl", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="stddev", description="flux contributors stddev")
	()

<i>array dataset</i>	Dataset similar to the one above with (name="exposure", description="Exposure")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="waveGrid", description="wavelength grid")

3.8.10. PACS Product Level 2 - Spectroscopy red rebinned 3d cube product

<i>product (type="HPS3DRRS", description="Spectroscopy red rebinned 3d cube product")</i>	
<i>Meta-data</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")

DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")

StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")

LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")

StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacsSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")

BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="micrometer")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="Flux")
<i>Metadata</i>	
BooleanParameter	flipyx (description="Flip YX in Display")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")

DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represents")
DoubleParameter	crota2 (description="The Rotation angle")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	cunit3 (description="WCS: Unit axis 3, default="")
<i>Columns</i>	
<i>Double3d</i>	(description="Flux", quantity="Jy/pixel")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="ra", description="Right ascension in degrees")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="dec", description="Declination in degrees")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="qualityControl", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="stddev", description="flux contributors stddev")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="exposure", description="Exposure")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="waveGrid", description="wavelength grid")

3.8.11. PACS Product Level 2 - Spectroscopy blue rebinned cube as table

<i>product (type="HPSTBRBS", description="Spectroscopy blue rebinned cube as table")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")

StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")

BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")

BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="pF")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="pF")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="pF")
DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="pF")
DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="pF")
DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="pF")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="pF")
StringParameter	onSource (description="SLICE_INFO:", quantity="pF")
StringParameter	offSource (description="SLICE_INFO:", quantity="pF")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="pF")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="pF")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="pF")
LongParameter	sliceNumber (description="Slice number", quantity="pF")
Columns	

<i>table dataset</i>	(name="Spectra", description="Table of PACS rebinned spectra")				
<i>Metadata</i>					
<i>Columns</i>					
	<i>Int1d</i>	RasterLine (description="Raster Line", quantity="none")			
	<i>Int1d</i>	RasterColumn (description="Raster Column", quantity="none")			
	<i>String1d</i>	Band (description="Spectral Band", quantity="none")			
	<i>Int1d</i>	SpaxelNumber (description="Spaxel number", quantity="none")			
	<i>Int1d</i>	SpaxelRow (description="Spaxel row in PACS cube", quantity="none")			
	<i>Int1d</i>	SpaxelColumn (description="Spaxel column in PACS cube", quantity="none")			
	<i>Double1d</i>	RightAscension (description="Right Ascension", quantity="deg")			
	<i>Double1d</i>	Declination (description="Declination", quantity="deg")			
	<i>Double1d</i>	Wavelength (description="Wavelength", quantity="micrometer")			
	<i>Double1d</i>	Flux (description="Flux", quantity="Jy/pixel")			
	<i>Double1d</i>	FluxErr (description="Error on Flux", quantity="Jy/pixel")			
		()			
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")				

3.8.12. PACS Product Level 2 - Spectroscopy red rebinned cube as table

<i>product</i>	(type="HPSTBRRS", description="Spectroscopy red rebinned cube as table")				
<i>Metadata</i>					
<i>StringParameter</i>	type	(description="Product Type Identification")			
<i>StringParameter</i>	creator	(description="Generator of this product")			
<i>DateParameter</i>	creationDate	(description="Creation date of this product")			
<i>StringParameter</i>	description	(description="Name of this product")			
<i>StringParameter</i>	instrument	(description="Instrument attached to this product")			
<i>StringParameter</i>	modelName	(description="Model name attached to this product")			
<i>DateParameter</i>	startDate	(description="Start date of this product")			
<i>DateParameter</i>	endDate	(description="End date of this product")			
<i>StringParameter</i>	formatVersion	(description="Version of product format")			
<i>StringParameter</i>	productNotes	(description="null")			
<i>LongParameter</i>	detRow	(description="Number of detector rows")			
<i>LongParameter</i>	detCol	(description="Number of detector columns")			
<i>StringParameter</i>	camName	(description="Name of the Camera")			
<i>LongParameter</i>	relTimeOffset	(description="Offset btwn PACS internal CRDC counter and on-board time")			
<i>LongParameter</i>	apid	(description="Application Programme Identifier")			
<i>DoubleParameter</i>	subType	(description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")			

DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")

StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	refSelected (description="HSPOT: instrument reference frame chosen for the raster", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	lineStep (description="HSPOT: raster line step", quantity="arcsec")
DoubleParameter	pointStep (description="HSPOT: raster column (point) step", quantity="arcsec")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")

StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
LongParameter	numRasterCol (description="HSPOT: no. raster cols: valid for rasters", quantity="s")
LongParameter	numRasterLines (description="HSPOT: no. raster lines: valid for rasters", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="deg")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="deg")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
BooleanParameter	pacsSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")

DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="pF")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="pF")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="pF")
DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="pF")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="pF")
DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="pF")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="pF")
StringParameter	onSource (description="SLICE_INFO:", quantity="pF")
StringParameter	offSource (description="SLICE_INFO:", quantity="pF")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="pF")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="pF")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="pF")
LongParameter	sliceNumber (description="Slice number", quantity="pF")
<i>Columns</i>	
<i>table dataset</i>	(name="Spectra", description="Table of PACS rebinned spectra")
<i>Metadata</i>	
<i>Columns</i>	
<i>IntId</i>	RasterLine (description="Raster Line", quantity="none")
<i>IntId</i>	RasterColumn (description="Raster Column", quantity="none")
<i>StringId</i>	Band (description="Spectral Band", quantity="none")
<i>IntId</i>	SpaxelNumber (description="Spaxel number", quantity="none")
<i>IntId</i>	SpaxelRow (description="Spaxel row in PACS cube", quantity="none")
<i>IntId</i>	SpaxelColumn (description="Spaxel column in PACS cube", quantity="none")
<i>DoubleId</i>	RightAscension (description="Right Ascension", quantity="deg")
<i>DoubleId</i>	Declination (description="Declination", quantity="deg")
<i>DoubleId</i>	Wavelength (description="Wavelength", quantity="micrometer")
<i>DoubleId</i>	Flux (description="Flux", quantity="Jy/pixel")
<i>DoubleId</i>	FluxErr (description="Error on Flux", quantity="Jy/pixel")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

3.8.13. PACS Product Level 2 - Spectroscopy blue equidistant interpolated 3d cube product

<i>product (type="HPS3DEQIBS", description="Spectroscopy blue equidistant interpolated 3d cube product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")

StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")

BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	lWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")

DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="micrometer")
DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="micrometer")

BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
BooleanParameter	wavelengthGridEquidistant (description="equidistant wavelength grid?", quantity="micrometer")
DoubleParameter	fracMinBinSize (description="fractional size of equidistant wavelength bins compared to min bin size of input cube", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="Flux")
<i>Metadata</i>	
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represents")
StringParameter	cunit3 (description="WCS: Unit axis 3, default="")
DoubleParameter	crpix3 (description="WCS: Reference layer index, unit=Scalar")
DoubleParameter	crval3 (description="WCS: Wavelength, time, ... of reference layer; unit=length,time,...")
DoubleParameter	cdelt3 (description="WCS: Scale in 3rd dimension, unit=Length, Duration, ...")
<i>Columns</i>	
<i>Double3d</i>	(description="Flux", quantity="Jy/pixel")

3.8.14. PACS Product Level 2 - Spectroscopy red equidistant interpolated 3d cube product

<i>product (type="HPS3DEQIRS", description="Spectroscopy red equidistant interpolated 3d cube product")</i>	
<i>Metadata</i>	

StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")

DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")

BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")

StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="micrometer")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")

DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
BooleanParameter	wavelengthGridEquidistant (description="equidistant wavelength grid?", quantity="micrometer")
DoubleParameter	fracMinBinSize (description="fractional size of equidistant wavelength bins compared to min bin size of input cube", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="Flux")
<i>Metadata</i>	
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represents")
StringParameter	cunit3 (description="WCS: Unit axis 3, default="")
DoubleParameter	crpix3 (description="WCS: Reference layer index, unit=Scalar")
DoubleParameter	crval3 (description="WCS: Wavelength, time, ... of reference layer; unit=length,time,...")
DoubleParameter	cdelt3 (description="WCS: Scale in 3rd dimension, unit=Length, Duration, ...")
<i>Columns</i>	
<i>Double3d</i>	(description="Flux", quantity="Jy/pixel")

3.8.15. PACS Product Level 2 - Spectroscopy blue interpolated 3d cube product

<i>product (type="HPS3DIBS", description="Spectroscopy blue interpolated 3d cube product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")

DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")

StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")

LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")

DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="micrometer")
DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="Flux")
<i>Metadata</i>	

DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represents")
StringParameter	cunit3 (description="WCS: Unit axis 3, default="")
<i>Columns</i>	
<i>Double3d</i>	(description="Flux", quantity="Jy/pixel")

3.8.16. PACS Product Level 2 - Spectroscopy red interpolated 3d cube product

<i>product (type="HPS3DIRS", description="Spectroscopy red interpolated 3d cube product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")

StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")

DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")

StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")

BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="micrometer")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="Flux")
<i>Metadata</i>	
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represents")
StringParameter	cunit3 (description="WCS: Unit axis 3, default="")
<i>Columns</i>	
<i>Double3d</i>	(description="Flux", quantity="Jy/pixel")

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3.8.17. PACS Product Level 2 - Spectroscopy blue projected 3d cube product

<i>product (type="HPS3DPBS", description="Spectroscopy blue projected 3d cube product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")

StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")

BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")

DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="micrometer")
DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")

DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="Flux")
<i>Metadata</i>	
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represents")
StringParameter	cunit3 (description="WCS: Unit axis 3, default="")
<i>Columns</i>	
<i>Double3d</i>	(description="Flux", quantity="Jy/pixel")

3.8.18. PACS Product Level 2 - Spectroscopy red projected 3d cube product

<i>product (type="HPS3DPRS", description="Spectroscopy red projected 3d cube product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")

DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")

StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")

LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")

DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="micrometer")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="Flux")
<i>Metadata</i>	

DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represents")
StringParameter	cunit3 (description="WCS: Unit axis 3, default="")
<i>Columns</i>	
<i>Double3d</i>	(description="Flux", quantity="Jy/pixel")

3.8.19. PACS Product Level 2 - Spectroscopy blue rebinned 3d cube product

<i>product (type="HPS3DRBS", description="Spectroscopy blue rebinned 3d cube product")</i>	
<i>Meta-</i>	<i>data</i>
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")

StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")

StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")

StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="????", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")

StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")

DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="micrometer")
DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")

<i>Columns</i>	
<i>array dataset</i>	(description="Flux")
<i>Metadata</i>	
BooleanParameter	flipyx (description="Flip YX in Display")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represents")
DoubleParameter	crota2 (description="The Rotation angle")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	cunit3 (description="WCS: Unit axis 3, default="")
<i>Columns</i>	
<i>Double3d</i>	(description="Flux", quantity="Jy/pixel")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="ra", description="Right ascension in degrees")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="dec", description="Declination in degrees")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="qualityControl", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="stddev", description="flux contributors stddev")
	()

<i>array dataset</i>	Dataset similar to the one above with (name="exposure", description="Exposure")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="waveGrid", description="wavelength grid")

3.8.20. PACS Product Level 2 - Spectroscopy red rebinned 3d cube product

<i>product (type="HPS3DRRS", description="Spectroscopy red rebinned 3d cube product")</i>	
<i>Meta-data</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")

DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")

StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")

LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	lWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")

DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacsSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")

LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="micrometer")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="Flux")
<i>Metadata</i>	
BooleanParameter	flipyx (description="Flip YX in Display")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")

DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represents")
DoubleParameter	crota2 (description="The Rotation angle")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	cunit3 (description="WCS: Unit axis 3, default="")
<i>Columns</i>	
<i>Double3d</i>	(description="Flux", quantity="Jy/pixel")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="ra", description="Right ascension in degrees")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="dec", description="Declination in degrees")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="qualityControl", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="stddev", description="flux contributors stddev")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="exposure", description="Exposure")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="waveGrid", description="wavelength grid")

3.8.21. PACS Product Level 2 - Spectroscopy blue 1D spectrum product

<i>product (type="HPSSPECBS", description="Spectroscopy blue 1D spectrum product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")

StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")

BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	lWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")

DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="micrometer")
DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")

DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
LongParameter	spaxelColumn (description="PACS Spaxel column", quantity="micrometer")
LongParameter	spaxelRow (description="PACS Spaxel row", quantity="micrometer")
DoubleParameter	spaxelRa (description="Right Ascension of the central spaxel", quantity="micrometer")
DoubleParameter	spaxelDec (description="Declination of the central spaxel", quantity="micrometer")
StringParameter	weights (description="null", quantity="micrometer")
StringParameter	flag (description="null", quantity="micrometer")
BooleanParameter	pointSourceCorrected (description="Point Source Correction Applied (central -> total)", quantity="micrometer")
LongParameter	obsidSeg000 (description="SEGMENT 0: Observation Identifier", quantity="micrometer")
StringParameter	proposalSeg000 (description="SEGMENT 0: Proposal name", quantity="micrometer")
StringParameter	lineDescriptionSeg000 (description="SEGMENT 0: SLICE_INFO: spectral line: name, wavelength, line id", quantity="micrometer")
DateParameter	startDateSeg000 (description="SEGMENT 0: Start date of the observation", quantity="micrometer")
DateParameter	endDateSeg000 (description="SEGMENT 0: End date of the observation", quantity="micrometer")
DoubleParameter	spaxelRaSeg000 (description="SEGMENT 0: Right Ascension of the central spaxel", quantity="micrometer")
DoubleParameter	spaxelDecSeg000 (description="SEGMENT 0: Declination of the central spaxel", quantity="micrometer")
DoubleParameter	radialVelocitySeg000 (description="SEGMENT 0: Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
BooleanParameter	pointSourceCorrectedSeg000 (description="SEGMENT 0: Point Source Correction Applied (central -> total)", quantity="km s-1")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="km s-1")
<i>Columns</i>	
<i>table dataset</i>	(name="spectra", description="Table with point-source spectra")
<i>Metadata</i>	
LongParameter	obsidSeg000 (description="SEGMENT 0: Observation Identifier")
StringParameter	proposalSeg000 (description="SEGMENT 0: Proposal name")

StringParameter	lineDescriptionSeg000 (description="SEGMENT 0: SLICE_INFO: spectral line: name, wavelength, line id")
DateParameter	startDateSeg000 (description="SEGMENT 0: Start date of the observation")
DateParameter	endDateSeg000 (description="SEGMENT 0: End date of the observation")
DoubleParameter	spaxelRaSeg000 (description="SEGMENT 0: Right Ascension of the central spaxel")
DoubleParameter	spaxelDecSeg000 (description="SEGMENT 0: Declination of the central spaxel")
DoubleParameter	radialVelocitySeg000 (description="SEGMENT 0: Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
BooleanParameter	pointSourceCorrectedSeg000 (description="SEGMENT 0: Point Source Correction Applied (central -> total)", quantity="km s-1")
<i>Columns</i>	
<i>IntId</i>	segment (description="Segment in concatenated spectra", quantity="none")
<i>DoubleId</i>	wave (description="Wavelength", quantity="micrometer")
<i>StringId</i>	band (description="Spectral band", quantity="none")
<i>DoubleId</i>	centralFlux (description="Flux from the central spaxel", quantity="Jy/pixel")
<i>DoubleId</i>	centralError (description="Error in flux from the central spaxel", quantity="Jy/pixel")
<i>DoubleId</i>	pointSourceFlux (description="Flux from the central spaxel, point source calibrated", quantity="Jy")
<i>DoubleId</i>	pointSourceError (description="Error in flux from the central spaxel, point source calibrated", quantity="Jy")
<i>DoubleId</i>	pointSourceScaledFlux (description="Flux from the central spaxel, scaled to the point source calibrated spectrum taken from the central 3x3 spaxels", quantity="Jy")
<i>DoubleId</i>	pointSourceScaledError (description="Error in flux from the central spaxel, scaled to the point source calibrated spectrum taken from the central 3x3 spaxels", quantity="Jy")

3.8.22. PACS Product Level 2 - Spectroscopy blue 1D spectrum product

<i>product (type="HPSSPECBS", description="Spectroscopy blue 1D spectrum product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")

DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")

StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")

LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")

LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="micrometer")
DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
LongParameter	spaxelColumn (description="PACS Spaxel column", quantity="micrometer")
LongParameter	spaxelRow (description="PACS Spaxel row", quantity="micrometer")
DoubleParameter	spaxelRa (description="Right Ascension of the central spaxel", quantity="micrometer")

DoubleParameter	spaxelDec (description="Declination of the central spaxel", quantity="micrometer")
StringParameter	weights (description="null", quantity="micrometer")
StringParameter	flag (description="null", quantity="micrometer")
BooleanParameter	pointSourceCorrected (description="Point Source Correction Applied (central -> total)", quantity="micrometer")
LongParameter	obsidSeg000 (description="SEGMENT 0: Observation Identifier", quantity="micrometer")
StringParameter	proposalSeg000 (description="SEGMENT 0: Proposal name", quantity="micrometer")
StringParameter	lineDescriptionSeg000 (description="SEGMENT 0: SLICE_INFO: spectral line: name, wavelength, line id", quantity="micrometer")
DateParameter	startDateSeg000 (description="SEGMENT 0: Start date of the observation", quantity="micrometer")
DateParameter	endDateSeg000 (description="SEGMENT 0: End date of the observation", quantity="micrometer")
DoubleParameter	spaxelRaSeg000 (description="SEGMENT 0: Right Ascension of the central spaxel", quantity="micrometer")
DoubleParameter	spaxelDecSeg000 (description="SEGMENT 0: Declination of the central spaxel", quantity="micrometer")
DoubleParameter	radialVelocitySeg000 (description="SEGMENT 0: Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
BooleanParameter	pointSourceCorrectedSeg000 (description="SEGMENT 0: Point Source Correction Applied (central -> total)", quantity="km s-1")
LongParameter	sliceNumber (description="Slice number", quantity="km s-1")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="km s-1")
<i>Columns</i>	
<i>table dataset</i>	(name="spectra", description="Table with point-source spectra")
<i>Metadata</i>	
LongParameter	obsidSeg000 (description="SEGMENT 0: Observation Identifier")
StringParameter	proposalSeg000 (description="SEGMENT 0: Proposal name")
StringParameter	lineDescriptionSeg000 (description="SEGMENT 0: SLICE_INFO: spectral line: name, wavelength, line id")
DateParameter	startDateSeg000 (description="SEGMENT 0: Start date of the observation")
DateParameter	endDateSeg000 (description="SEGMENT 0: End date of the observation")
DoubleParameter	spaxelRaSeg000 (description="SEGMENT 0: Right Ascension of the central spaxel")
DoubleParameter	spaxelDecSeg000 (description="SEGMENT 0: Declination of the central spaxel")
DoubleParameter	radialVelocitySeg000 (description="SEGMENT 0: Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
BooleanParameter	pointSourceCorrectedSeg000 (description="SEGMENT 0: Point Source Correction Applied (central -> total)", quantity="km s-1")

<i>Columns</i>	
<i>Int1d</i>	segment (description="Segment in concatenated spectra", quantity="none")
<i>Double1d</i>	wave (description="Wavelength", quantity="micrometer")
<i>String1d</i>	band (description="Spectral band", quantity="none")
<i>Double1d</i>	centralFlux (description="Flux from the central spaxel", quantity="Jy/pixel")
<i>Double1d</i>	centralError (description="Error in flux from the central spaxel", quantity="Jy/pixel")
<i>Double1d</i>	pointSourceFlux (description="Flux from the central spaxel, point source calibrated", quantity="Jy")
<i>Double1d</i>	pointSourceError (description="Error in flux from the central spaxel, point source calibrated", quantity="Jy")
<i>Double1d</i>	pointSourceScaledFlux (description="Flux from the central spaxel, scaled to the point source calibrated spectrum taken from the central 3x3 spaxels", quantity="Jy")
<i>Double1d</i>	pointSourceScaledError (description="Error in flux from the central spaxel, scaled to the point source calibrated spectrum taken from the central 3x3 spaxels", quantity="Jy")

3.8.23. PACS Product Level 2 - Spectroscopy red 1D spectrum product

<i>product (type="HPSSPECRS", description="Spectroscopy red 1D spectrum product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")

DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")

StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")

StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacsSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")

DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="micrometer")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
LongParameter	spaxelColumn (description="PACS Spaxel column", quantity="micrometer")
LongParameter	spaxelRow (description="PACS Spaxel row", quantity="micrometer")
DoubleParameter	spaxelRa (description="Right Ascension of the central spaxel", quantity="micrometer")
DoubleParameter	spaxelDec (description="Declination of the central spaxel", quantity="micrometer")
StringParameter	weights (description="null", quantity="micrometer")
StringParameter	flag (description="null", quantity="micrometer")
BooleanParameter	pointSourceCorrected (description="Point Source Correction Applied (central -> total)", quantity="micrometer")
LongParameter	obsidSeg000 (description="SEGMENT 0: Observation Identifier", quantity="micrometer")
StringParameter	proposalSeg000 (description="SEGMENT 0: Proposal name", quantity="micrometer")
StringParameter	lineDescriptionSeg000 (description="SEGMENT 0: SLICE_INFO: spectral line: name, wavelength, line id", quantity="micrometer")

DateParameter	startDateSeg000 (description="SEGMENT 0: Start date of the observation", quantity="micrometer")
DateParameter	endDateSeg000 (description="SEGMENT 0: End date of the observation", quantity="micrometer")
DoubleParameter	spaxelRaSeg000 (description="SEGMENT 0: Right Ascension of the central spaxel", quantity="micrometer")
DoubleParameter	spaxelDecSeg000 (description="SEGMENT 0: Declination of the central spaxel", quantity="micrometer")
DoubleParameter	radialVelocitySeg000 (description="SEGMENT 0: Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
BooleanParameter	pointSourceCorrectedSeg000 (description="SEGMENT 0: Point Source Correction Applied (central -> total)", quantity="km s-1")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="km s-1")
<i>Columns</i>	
<i>table dataset</i>	(name="spectra", description="Table with point-source spectra")
<i>Metadata</i>	
LongParameter	obsidSeg000 (description="SEGMENT 0: Observation Identifier")
StringParameter	proposalSeg000 (description="SEGMENT 0: Proposal name")
StringParameter	lineDescriptionSeg000 (description="SEGMENT 0: SLICE_INFO: spectral line: name, wavelength, line id")
DateParameter	startDateSeg000 (description="SEGMENT 0: Start date of the observation")
DateParameter	endDateSeg000 (description="SEGMENT 0: End date of the observation")
DoubleParameter	spaxelRaSeg000 (description="SEGMENT 0: Right Ascension of the central spaxel")
DoubleParameter	spaxelDecSeg000 (description="SEGMENT 0: Declination of the central spaxel")
DoubleParameter	radialVelocitySeg000 (description="SEGMENT 0: Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
BooleanParameter	pointSourceCorrectedSeg000 (description="SEGMENT 0: Point Source Correction Applied (central -> total)", quantity="km s-1")
<i>Columns</i>	
<i>IntId</i>	segment (description="Segment in concatenated spectra", quantity="none")
<i>DoubleId</i>	wave (description="Wavelength", quantity="micrometer")
<i>StringId</i>	band (description="Spectral band", quantity="none")
<i>DoubleId</i>	centralFlux (description="Flux from the central spaxel", quantity="Jy/pixel")
<i>DoubleId</i>	centralError (description="Error in flux from the central spaxel", quantity="Jy/pixel")
<i>DoubleId</i>	pointSourceFlux (description="Flux from the central spaxel, point source calibrated", quantity="Jy")
<i>DoubleId</i>	pointSourceError (description="Error in flux from the central spaxel, point source calibrated", quantity="Jy")

<i>DoubleId</i>	pointSourceScaledFlux (description="Flux from the central spaxel, scaled to the point source calibrated spectrum taken from the central 3x3 spaxels", quantity="Jy")
<i>DoubleId</i>	pointSourceScaledError (description="Error in flux from the central spaxel, scaled to the point source calibrated spectrum taken from the central 3x3 spaxels", quantity="Jy")

3.8.24. PACS Product Level 2 - Spectroscopy red 1D spectrum product

<i>product (type="HPSSPECRS", description="Spectroscopy red 1D spectrum product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")

LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")

StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	lWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")

LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")

DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="micrometer")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
LongParameter	spaxelColumn (description="PACS Spaxel column", quantity="micrometer")
LongParameter	spaxelRow (description="PACS Spaxel row", quantity="micrometer")
DoubleParameter	spaxelRa (description="Right Ascension of the central spaxel", quantity="micrometer")
DoubleParameter	spaxelDec (description="Declination of the central spaxel", quantity="micrometer")
StringParameter	weights (description="null", quantity="micrometer")
StringParameter	flag (description="null", quantity="micrometer")
BooleanParameter	pointSourceCorrected (description="Point Source Correction Applied (central -> total)", quantity="micrometer")
LongParameter	obsidSeg000 (description="SEGMENT 0: Observation Identifier", quantity="micrometer")
StringParameter	proposalSeg000 (description="SEGMENT 0: Proposal name", quantity="micrometer")
StringParameter	lineDescriptionSeg000 (description="SEGMENT 0: SLICE_INFO: spectral line: name, wavelength, line id", quantity="micrometer")
DateParameter	startDateSeg000 (description="SEGMENT 0: Start date of the observation", quantity="micrometer")
DateParameter	endDateSeg000 (description="SEGMENT 0: End date of the observation", quantity="micrometer")
DoubleParameter	spaxelRaSeg000 (description="SEGMENT 0: Right Ascension of the central spaxel", quantity="micrometer")
DoubleParameter	spaxelDecSeg000 (description="SEGMENT 0: Declination of the central spaxel", quantity="micrometer")
DoubleParameter	radialVelocitySeg000 (description="SEGMENT 0: Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
BooleanParameter	pointSourceCorrectedSeg000 (description="SEGMENT 0: Point Source Correction Applied (central -> total)", quantity="km s-1")
LongParameter	sliceNumber (description="Slice number", quantity="km s-1")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="km s-1")
<i>Columns</i>	

<i>table dataset</i>		(name="spectra", description="Table with point-source spectra")
<i>Metadata</i>		
LongParameter	obsidSeg000	(description="SEGMENT 0: Observation Identifier")
StringParameter	proposalSeg000	(description="SEGMENT 0: Proposal name")
StringParameter	lineDescriptionSeg000	(description="SEGMENT 0: SLICE_INFO: spectral line: name, wavelength, line id")
DateParameter	startDateSeg000	(description="SEGMENT 0: Start date of the observation")
DateParameter	endDateSeg000	(description="SEGMENT 0: End date of the observation")
DoubleParameter	spaxelRaSeg000	(description="SEGMENT 0: Right Ascension of the central spaxel")
DoubleParameter	spaxelDecSeg000	(description="SEGMENT 0: Declination of the central spaxel")
DoubleParameter	radialVelocitySeg000	(description="SEGMENT 0: Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
BooleanParameter	pointSourceCorrectedSeg000	(description="SEGMENT 0: Point Source Correction Applied (central -> total)", quantity="km s-1")
<i>Columns</i>		
<i>IntId</i>	segment	(description="Segment in concatenated spectra", quantity="none")
<i>DoubleId</i>	wave	(description="Wavelength", quantity="micrometer")
<i>StringId</i>	band	(description="Spectral band", quantity="none")
<i>DoubleId</i>	centralFlux	(description="Flux from the central spaxel", quantity="Jy/pixel")
<i>DoubleId</i>	centralError	(description="Error in flux from the central spaxel", quantity="Jy/pixel")
<i>DoubleId</i>	pointSourceFlux	(description="Flux from the central spaxel, point source calibrated", quantity="Jy")
<i>DoubleId</i>	pointSourceError	(description="Error in flux from the central spaxel, point source calibrated", quantity="Jy")
<i>DoubleId</i>	pointSourceScaledFlux	(description="Flux from the central spaxel, scaled to the point source calibrated spectrum taken from the central 3x3 spaxels", quantity="Jy")
<i>DoubleId</i>	pointSourceScaledError	(description="Error in flux from the central spaxel, scaled to the point source calibrated spectrum taken from the central 3x3 spaxels", quantity="Jy")

3.8.25. PACS Product Level 2 - Spectroscopy blue rebinned cube as table

<i>product</i>		(type="HPSTBRBS", description="Spectroscopy blue rebinned cube as table")
<i>Metadata</i>		
StringParameter	type	(description="Product Type Identification")
StringParameter	creator	(description="Generator of this product")

DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	productNotes (description="null")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
LongParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")

StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="????", quantity="deg")
DoubleParameter	pointedRefRa (description="????", quantity="deg")

DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	IWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")

LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")
DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecBlueNotFlaggedBad (description="Usable pixels for the Blue detector", quantity="micrometer")
DoubleParameter	infoSpecBlueGlitchRate (description="Percentage of blue spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecBlueSaturationRate (description="Percentage of blue spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
Columns	

<i>table</i>	<i>(name="Spectra", description="Table of PACS rebinned spectra")</i>			
<i>dataset</i>				
<i>Metadata</i>				
<i>Columns</i>				
<i>Int1d</i>	<i>RasterLine</i>	(description="Raster Line", quantity="none")		
<i>Int1d</i>	<i>RasterColumn</i>	(description="Raster Column", quantity="none")		
<i>String1d</i>	<i>Band</i>	(description="Spectral Band", quantity="none")		
<i>Int1d</i>	<i>SpaxelNumber</i>	(description="Spaxel number", quantity="none")		
<i>Int1d</i>	<i>SpaxelRow</i>	(description="Spaxel row in PACS cube", quantity="none")		
<i>Int1d</i>	<i>SpaxelColumn</i>	(description="Spaxel column in PACS cube", quantity="none")		
<i>Double1d</i>	<i>RightAscension</i>	(description="Right Ascension", quantity="deg")		
<i>Double1d</i>	<i>Declination</i>	(description="Declination", quantity="deg")		
<i>Double1d</i>	<i>Wavelength</i>	(description="Wavelength", quantity="micrometer")		
<i>Double1d</i>	<i>Flux</i>	(description="Flux", quantity="Jy/pixel")		
<i>Double1d</i>	<i>FluxErr</i>	(description="Error on Flux", quantity="Jy/pixel")		
	<i>()</i>			
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")			

3.8.26. PACS Product Level 2 - Spectroscopy red rebinned cube as table

<i>product</i>	<i>(type="HPSTBRRS", description="Spectroscopy red rebinned cube as table")</i>			
<i>Metadata</i>				
<i>StringParameter</i>	<i>type</i>	(description="Product Type Identification")		
<i>StringParameter</i>	<i>creator</i>	(description="Generator of this product")		
<i>DateParameter</i>	<i>creationDate</i>	(description="Creation date of this product")		
<i>StringParameter</i>	<i>description</i>	(description="Name of this product")		
<i>StringParameter</i>	<i>instrument</i>	(description="Instrument attached to this product")		
<i>StringParameter</i>	<i>modelName</i>	(description="Model name attached to this product")		
<i>DateParameter</i>	<i>startDate</i>	(description="Start date of this product")		
<i>DateParameter</i>	<i>endDate</i>	(description="End date of this product")		
<i>StringParameter</i>	<i>formatVersion</i>	(description="Version of product format")		
<i>StringParameter</i>	<i>productNotes</i>	(description="null")		
<i>LongParameter</i>	<i>detRow</i>	(description="Number of detector rows")		
<i>LongParameter</i>	<i>detCol</i>	(description="Number of detector columns")		
<i>StringParameter</i>	<i>camName</i>	(description="Name of the Camera")		
<i>LongParameter</i>	<i>relTimeOffset</i>	(description="Offset btwn PACS internal CRDC counter and on-board time")		
<i>LongParameter</i>	<i>apid</i>	(description="Application Programme Identifier")		
<i>DoubleParameter</i>	<i>subType</i>	(description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")		

DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")

StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="null", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="km s-1")
BooleanParameter	faintLines (description="HSPOT: faint line mode selected", quantity="km s-1")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="km s-1")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="km s-1")
BooleanParameter	pointedRefOffset (description="an off-measurement at a ref. position?", quantity="km s-1")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")
DoubleParameter	pointedRefDec (description="???", quantity="deg")
DoubleParameter	pointedRefRa (description="???", quantity="deg")
DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
DoubleParameter	redshiftValue (description="HSPOT: redshift", quantity="deg")
LongParameter	mapGratScanOffRep (description="no. raster steps b4 off is visited", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	fluxUnit (description="HSPOT: units for the estimated fluxes", quantity="deg")
StringParameter	lWave (description="HSPOT: line central wavelengths", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	lines (description="HSPOT: description of observed lines", quantity="deg")
StringParameter	redshiftType (description="HSPOT: redshift type: redshift or optical", quantity="deg")
StringParameter	repeatLine (description="HSPOT: line scan repetitions", quantity="deg")

StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	StartingTime (description="start time of the observation", quantity="deg")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="s")
StringParameter	Line1 (description="null", quantity="s")
StringParameter	Line2 (description="null", quantity="s")
LongParameter	sliceNumber (description="Slice number", quantity="s")
BooleanParameter	isInterlaced (description="null", quantity="s")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
StringParameter	band (description="SLICE_INFO: spectral band (R1, B2A B, B3A)", quantity="deg")
LongParameter	order (description="SLICE_INFO: filter order", quantity="deg")
LongParameter	filter (description="SLICE_INFO: Filter", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="pF")
BooleanParameter	pacsSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")
BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
StringParameter	lineDescription (description="SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
LongParameter	lineId (description="SLICE_INFO: line ID", quantity="pF")
DoubleParameter	minWavelength (description="SLICE_INFO: minimum wavelength", quantity="pF")
DoubleParameter	maxWavelength (description="SLICE_INFO: maximum wavelength", quantity="pF")

DoubleParameter	meanWavelength (description="SLICE_INFO: mean or line wavelength", quantity="micrometer")
BooleanParameter	isPrime (description="SLICE_INFO: is in prime channel?", quantity="micrometer")
StringParameter	isInLeak (description="SLICE_INFO: any data inside spectral leak?", quantity="micrometer")
StringParameter	nodPosition (description="SLICE_INFO: nodding position A, B, undef", quantity="micrometer")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="micrometer")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="micrometer")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="micrometer")
DoubleParameter	infoSpecRedNotFlaggedBad (description="Usable pixel for the Red detector", quantity="micrometer")
DoubleParameter	infoSpecRedGlitchRate (description="Percentage of red spectrometer deglitched pixels in science blocks above threshold", quantity="micrometer")
DoubleParameter	infoSpecRedSaturationRate (description="Percentage of red spectrometer saturated pixels in science blocks", quantity="micrometer")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="micrometer")
StringParameter	onSource (description="SLICE_INFO:", quantity="micrometer")
StringParameter	offSource (description="SLICE_INFO:", quantity="micrometer")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="micrometer")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="micrometer")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="micrometer")
<i>Columns</i>	
<i>table dataset</i>	(name="Spectra", description="Table of PACS rebinned spectra")
<i>Metadata</i>	
<i>Columns</i>	
<i>Int1d</i>	RasterLine (description="Raster Line", quantity="none")
<i>Int1d</i>	RasterColumn (description="Raster Column", quantity="none")
<i>String1d</i>	Band (description="Spectral Band", quantity="none")
<i>Int1d</i>	SpaxelNumber (description="Spaxel number", quantity="none")
<i>Int1d</i>	SpaxelRow (description="Spaxel row in PACS cube", quantity="none")
<i>Int1d</i>	SpaxelColumn (description="Spaxel column in PACS cube", quantity="none")
<i>Double1d</i>	RightAscension (description="Right Ascension", quantity="deg")
<i>Double1d</i>	Declination (description="Declination", quantity="deg")
<i>Double1d</i>	Wavelength (description="Wavelength", quantity="micrometer")
<i>Double1d</i>	Flux (description="Flux", quantity="Jy/pixel")
<i>Double1d</i>	FluxErr (description="Error on Flux", quantity="Jy/pixel")

	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

These products are of type `MapContext` and contain images of type `SimpleImage`. The tables in the following sections show the metadata of the contexts.

3.9. PACS Level-2.5 and Level-3 products

3.9.1. PACS Product Level 3 - Spectroscopy combined red/blue 1D spectrum table

<i>product (type="HPSSPEC", description="Spectroscopy combined red/blue 1D spectrum table")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
LongParameter	spec_red_FailedSPUBuffer (description="no. of red SPU buffers not decompressed due to corrupt data")
LongParameter	spec_blue_FailedSPUBuffer (description="no. of blue SPU buffers not decompressed due to corrupt data")
StringParameter	level (description="Product level")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")

StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	OnOffPosition (description="Entire product: ON-src, OFF-src, Undef?")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	origin (description="Site that created the product")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
StringParameter	calVersion (description="Version of calibration tree used", quantity="deg")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="deg")
StringParameter	target (description="Target", quantity="deg")
StringParameter	targetType (description="Target Type", quantity="deg")
StringParameter	subinstrument (description="Sub Instrument", quantity="deg")
StringParameter	observingMode (description="null", quantity="deg")
BooleanParameter	chopNod (description="HSPOT: True for chop/nod, else False", quantity="deg")
BooleanParameter	gratScan (description="HSPOT: unchopped range scan observation?", quantity="deg")
BooleanParameter	mapRasterAngleRefFrame (description="raster ref. frame aligned w: (T) instrument y-z, (F) sky", quantity="deg")
DoubleParameter	chopAvoidFrom (description="HSPOT: chopper avoidance angle from", quantity="deg")
DoubleParameter	chopAvoidTo (description="HSPOT: chopper avoidance angle to", quantity="deg")
DoubleParameter	decoff (description="Actual declination of the off position", quantity="deg")

DoubleParameter	raoff (description="RA of the off position for unchopped", quantity="deg")
LongParameter	naifid (description="???", quantity="deg")
LongParameter	userNODcycles (description="HSPOT: number of ABBA nod cycle repetitions", quantity="deg")
StringParameter	bluWave (description="HSPOT: blue limits for all ranges", quantity="deg")
StringParameter	density (description="HSPOT: wavelength sampling (nyquist/high)", quantity="deg")
StringParameter	lcontFlux (description="HSPOT: estimated continuum fluxes", quantity="deg")
StringParameter	lineFlux (description="HSPOT: estimated line fluxes", quantity="deg")
StringParameter	lineWidth (description="HSPOT: estimated line widths", quantity="deg")
StringParameter	rangeId (description="HSPOT: wavelength range identifiers", quantity="deg")
StringParameter	redWave (description="HSPOT: red limits for all ranges", quantity="deg")
StringParameter	refWave (description="HSPOT: reference wavelengths for all ranges", quantity="deg")
StringParameter	repeatRange (description="HSPOT: repetition factors for all ranges", quantity="deg")
StringParameter	source (description="pointing mode: point: single, large: mapping", quantity="deg")
StringParameter	throw (description="HSPOT: chopper throw: large(6'), medium(3'), small (1')", quantity="deg")
StringParameter	widthUnit (description="HSPOT: units for the estimated line widths", quantity="deg")
DateParameter	odStartTime (description="Operational Day start time", quantity="deg")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="deg")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="deg")
StringParameter	chopperThrow (description="HSPOT: chopper throw: large(6'), medium(3'), small (1')", quantity="deg")
LongParameter	numNodCyc (description="Number of nod cycle repetitions", quantity="deg")
LongParameter	numSpecLines (description="Number of spectral lines", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
BooleanParameter	herschelVelocityApplied (description="Herschel Velocity applied to wavelength", quantity="deg")
StringParameter	aotMode (description="SLICE_INFO: observation mode description", quantity="deg")
StringParameter	rasterId (description="SLICE_INFO: raster column, raster line", quantity="deg")
BooleanParameter	isOffPosition (description="SLICE_INFO: off position or not", quantity="deg")
LongParameter	repetition (description="SLICE_INFO: repetition", quantity="deg")
LongParameter	obcp (description="SLICE_INFO: Obcp", quantity="deg")
DoubleParameter	capacitance (description="SLICE_INFO: integration capacitance", quantity="pF")
BooleanParameter	pacsSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="pF")

BooleanParameter	calBlock (description="SLICE_INFO: calibration block indicator", quantity="pF")
LongParameter	nodCycleNum (description="SLICE_INFO: nodding cycle number", quantity="pF")
LongParameter	onOffSource (description="SLICE_INFO: 0 not science;1 on-src;2 off-src", quantity="pF")
StringParameter	productNotes (description="null", quantity="pF")
StringParameter	onSource (description="SLICE_INFO:", quantity="pF")
StringParameter	offSource (description="SLICE_INFO:", quantity="pF")
BooleanParameter	infoSpecLowSampling (description="boolean flag: if true: more than 20% of the spectral bins have less then 6 valid data points", quantity="pF")
DoubleParameter	oversample (description="SLICE_INFO: oversample factor", quantity="pF")
DoubleParameter	upsample (description="SLICE_INFO: upsample factor", quantity="pF")
LongParameter	spaxelColumn (description="PACS Spaxel column", quantity="pF")
LongParameter	spaxelRow (description="PACS Spaxel row", quantity="pF")
StringParameter	weights (description="null", quantity="pF")
BooleanParameter	pointSourceCorrected (description="Point Source Correction Applied (central -> total)", quantity="pF")
LongParameter	obsidSeg000 (description="SEGMENT 0: Observation Identifier", quantity="pF")
StringParameter	proposalSeg000 (description="SEGMENT 0: Proposal name", quantity="pF")
StringParameter	lineDescriptionSeg000 (description="SEGMENT 0: SLICE_INFO: spectral line: name, wavelength, line id", quantity="pF")
DateParameter	startDateSeg000 (description="SEGMENT 0: Start date of the observation", quantity="pF")
DateParameter	endDateSeg000 (description="SEGMENT 0: End date of the observation", quantity="pF")
DoubleParameter	spaxelRaSeg000 (description="SEGMENT 0: Right Ascension of the central spaxel", quantity="pF")
DoubleParameter	spaxelDecSeg000 (description="SEGMENT 0: Declination of the central spaxel", quantity="pF")
DoubleParameter	radialVelocitySeg000 (description="SEGMENT 0: Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
BooleanParameter	pointSourceCorrectedSeg000 (description="SEGMENT 0: Point Source Correction Applied (central -> total)", quantity="km s-1")
BooleanParameter	extendedSourceCorrected (description="extended source correction applied", quantity="km s-1")
LongParameter	obsidSeg001 (description="SEGMENT 1: Observation Identifier", quantity="km s-1")
StringParameter	proposalSeg001 (description="SEGMENT 1: Proposal name", quantity="km s-1")
StringParameter	lineDescriptionSeg001 (description="SEGMENT 1: SLICE_INFO: spectral line: name, wavelength, line id", quantity="km s-1")
DateParameter	startDateSeg001 (description="SEGMENT 1: Start date of the observation", quantity="km s-1")

DateParameter	endDateSeg001 (description="SEGMENT 1: End date of the observation", quantity="km s-1")
DoubleParameter	spaxelRaSeg001 (description="SEGMENT 1: Right Ascension of the central spaxel", quantity="km s-1")
DoubleParameter	spaxelDecSeg001 (description="SEGMENT 1: Declination of the central spaxel", quantity="km s-1")
DoubleParameter	radialVelocitySeg001 (description="SEGMENT 1: Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
BooleanParameter	pointSourceCorrectedSeg001 (description="SEGMENT 1: Point Source Correction Applied (central -> total)", quantity="km s-1")
LongParameter	obsidSeg002 (description="SEGMENT 2: Observation Identifier", quantity="km s-1")
StringParameter	proposalSeg002 (description="SEGMENT 2: Proposal name", quantity="km s-1")
StringParameter	lineDescriptionSeg002 (description="SEGMENT 2: SLICE_INFO: spectral line: name, wavelength, line id", quantity="km s-1")
DateParameter	startDateSeg002 (description="SEGMENT 2: Start date of the observation", quantity="km s-1")
DateParameter	endDateSeg002 (description="SEGMENT 2: End date of the observation", quantity="km s-1")
DoubleParameter	spaxelRaSeg002 (description="SEGMENT 2: Right Ascension of the central spaxel", quantity="km s-1")
DoubleParameter	spaxelDecSeg002 (description="SEGMENT 2: Declination of the central spaxel", quantity="km s-1")
DoubleParameter	radialVelocitySeg002 (description="SEGMENT 2: Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
BooleanParameter	pointSourceCorrectedSeg002 (description="SEGMENT 2: Point Source Correction Applied (central -> total)", quantity="km s-1")
LongParameter	obsid (description="Observation Identifier", quantity="km s-1")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="km s-1")
StringParameter	aorLabel (description="AOR Label as entered in HSpot", quantity="km s-1")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
StringParameter	rangeSPOT (description="HSPOT: description of lines", quantity="km s-1")
StringParameter	StartingTime (description="start time of the observation", quantity="km s-1")
DoubleParameter	duration (description="Total duration of the observation in seconds", quantity="s")
StringParameter	Line1 (description="null", quantity="s")

LongParameter	filter (description="SLICE_INFO: Filter", quantity="s")
DoubleParameter	gratingStep (description="SLICE_INFO: grating step", quantity="s")
LongParameter	obsidSeg003 (description="SEGMENT 3: Observation Identifier", quantity="s")
StringParameter	proposalSeg003 (description="SEGMENT 3: Proposal name", quantity="s")
StringParameter	lineDescriptionSeg003 (description="SEGMENT 3: SLICE_INFO: spectral line: name, wavelength, line id", quantity="s")
DateParameter	startDateSeg003 (description="SEGMENT 3: Start date of the observation", quantity="s")
DateParameter	endDateSeg003 (description="SEGMENT 3: End date of the observation", quantity="s")
DoubleParameter	spaxelRaSeg003 (description="SEGMENT 3: Right Ascension of the central spaxel", quantity="s")
DoubleParameter	spaxelDecSeg003 (description="SEGMENT 3: Declination of the central spaxel", quantity="s")
DoubleParameter	radialVelocitySeg003 (description="SEGMENT 3: Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
BooleanParameter	pointSourceCorrectedSeg003 (description="SEGMENT 3: Point Source Correction Applied (central -> total)", quantity="km s-1")
LongParameter	obsid001 (description="Observation Identifier", quantity="km s-1")
LongParameter	obsid002 (description="Observation Identifier", quantity="km s-1")
StringParameter	fileName (description="FITS filename for this product", quantity="km s-1")
<i>Columns</i>	
<i>table dataset</i>	(name="spectra", description="Table with point-source spectra")
<i>Metadata</i>	
LongParameter	obsidSeg000 (description="SEGMENT 0: Observation Identifier")
StringParameter	proposalSeg000 (description="SEGMENT 0: Proposal name")
StringParameter	lineDescriptionSeg000 (description="SEGMENT 0: SLICE_INFO: spectral line: name, wavelength, line id")
DateParameter	startDateSeg000 (description="SEGMENT 0: Start date of the observation")
DateParameter	endDateSeg000 (description="SEGMENT 0: End date of the observation")
DoubleParameter	spaxelRaSeg000 (description="SEGMENT 0: Right Ascension of the central spaxel")
DoubleParameter	spaxelDecSeg000 (description="SEGMENT 0: Declination of the central spaxel")
DoubleParameter	radialVelocitySeg000 (description="SEGMENT 0: Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
BooleanParameter	pointSourceCorrectedSeg000 (description="SEGMENT 0: Point Source Correction Applied (central -> total)", quantity="km s-1")
LongParameter	obsidSeg001 (description="SEGMENT 1: Observation Identifier", quantity="km s-1")
StringParameter	proposalSeg001 (description="SEGMENT 1: Proposal name", quantity="km s-1")

StringParameter	lineDescriptionSeg001 (description="SEGMENT 1: SLICE_INFO: spectral line: name, wavelength, line id", quantity="km s-1")
DateParameter	startDateSeg001 (description="SEGMENT 1: Start date of the observation", quantity="km s-1")
DateParameter	endDateSeg001 (description="SEGMENT 1: End date of the observation", quantity="km s-1")
DoubleParameter	spaxelRaSeg001 (description="SEGMENT 1: Right Ascension of the central spaxel", quantity="km s-1")
DoubleParameter	spaxelDecSeg001 (description="SEGMENT 1: Declination of the central spaxel", quantity="km s-1")
DoubleParameter	radialVelocitySeg001 (description="SEGMENT 1: Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
BooleanParameter	pointSourceCorrectedSeg001 (description="SEGMENT 1: Point Source Correction Applied (central -> total)", quantity="km s-1")
LongParameter	obsidSeg002 (description="SEGMENT 2: Observation Identifier", quantity="km s-1")
StringParameter	proposalSeg002 (description="SEGMENT 2: Proposal name", quantity="km s-1")
StringParameter	lineDescriptionSeg002 (description="SEGMENT 2: SLICE_INFO: spectral line: name, wavelength, line id", quantity="km s-1")
DateParameter	startDateSeg002 (description="SEGMENT 2: Start date of the observation", quantity="km s-1")
DateParameter	endDateSeg002 (description="SEGMENT 2: End date of the observation", quantity="km s-1")
DoubleParameter	spaxelRaSeg002 (description="SEGMENT 2: Right Ascension of the central spaxel", quantity="km s-1")
DoubleParameter	spaxelDecSeg002 (description="SEGMENT 2: Declination of the central spaxel", quantity="km s-1")
DoubleParameter	radialVelocitySeg002 (description="SEGMENT 2: Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
BooleanParameter	pointSourceCorrectedSeg002 (description="SEGMENT 2: Point Source Correction Applied (central -> total)", quantity="km s-1")
LongParameter	obsidSeg003 (description="SEGMENT 3: Observation Identifier", quantity="km s-1")
StringParameter	proposalSeg003 (description="SEGMENT 3: Proposal name", quantity="km s-1")
StringParameter	lineDescriptionSeg003 (description="SEGMENT 3: SLICE_INFO: spectral line: name, wavelength, line id", quantity="km s-1")
DateParameter	startDateSeg003 (description="SEGMENT 3: Start date of the observation", quantity="km s-1")
DateParameter	endDateSeg003 (description="SEGMENT 3: End date of the observation", quantity="km s-1")
DoubleParameter	spaxelRaSeg003 (description="SEGMENT 3: Right Ascension of the central spaxel", quantity="km s-1")
DoubleParameter	spaxelDecSeg003 (description="SEGMENT 3: Declination of the central spaxel", quantity="km s-1")

DoubleParameter	radialVelocitySeg003 (description="SEGMENT 3: Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
BooleanParameter	pointSourceCorrectedSeg003 (description="SEGMENT 3: Point Source Correction Applied (central -> total)", quantity="km s-1")
Columns	
IntId	segment (description="Segment in concatenated spectra", quantity="none")
DoubleId	wave (description="Wavelength", quantity="micrometer")
StringId	band (description="Spectral band", quantity="none")
DoubleId	centralFlux (description="Flux from the central spaxel", quantity="Jy/pixel")
DoubleId	centralError (description="Error in flux from the central spaxel", quantity="Jy/pixel")
DoubleId	pointSourceFlux (description="Flux from the central spaxel, point source calibrated", quantity="Jy")
DoubleId	pointSourceError (description="Error in flux from the central spaxel, point source calibrated", quantity="Jy")
DoubleId	pointSourceScaledFlux (description="Flux from the central spaxel, scaled to the point source calibrated spectrum taken from the central 3x3 spaxels", quantity="Jy")
DoubleId	pointSourceScaledError (description="Error in flux from the central spaxel, scaled to the point source calibrated spectrum taken from the central 3x3 spaxels", quantity="Jy")

Chapter 4. PACS Calibration Products

4.1. PACS Common Calibration History Products

4.1.1. PACSCal Product Level - Chopper position readout versus chopper angle calibration

<i>product (type="ChopperAngle", description="Chopper position readout versus chopper angle calibration")</i>	
<i>Meta-data</i>	
String-Parameter	type (description="Product Type Identification")
String-Parameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Date of file creation")
String-Parameter	description (description="Name of this product")
String-Parameter	instrument (description="Instrument attached to this product")
String-Parameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start time of this product")
DateParameter	endDate (description="End time of this product")
String-Parameter	formatVersion (description="Calfile format version")
String-Parameter	calFileId (description="Calfile type identifier")
LongParameter	calFileVersion (description="null")
String-Parameter	author (description="Author of the data")
String-Parameter	fileName (description="null")
<i>Columns</i>	

<i>array dataset</i>	(description="FP I Voltage readback")
<i>Meta- data</i>	
<i>Columns</i>	
<i>DoubleId</i>	(description="FP I Voltage readback", quantity="none")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="angles", description="Deflection angle")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="cor_voltages", description="zero offset corrected FP I Voltage readback")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="cor_angles", description="zero offset corrected deflection angle")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="zeissAmplification", description="Zeiss amplification factor")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="cslAmplification", description="CSL amplification factor")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="zeroPointOffset", description="Zero point offset")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="adu2VoltConversion", description="conversion factor to convert decmec readouts to voltages")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="ranges", description="3 deflection angle ranges of polynomial fits (Science, Calibration w)")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="polCalNegVoltAngle", description="fitted polynomial coefficients of calibration window for conversion")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="polCalPosVoltAngle", description="fitted polynomial coefficients of calibration window for conversion")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="polScienceVoltAngle", description="fitted polynomial coefficients of science window for conversion volt")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="polCalNegAngleVolt", description="fitted polynomial coefficients of calibration window for conversion")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="polCalPosAngleVolt", description="fitted polynomial coefficients of calibration window for conversion")

	()
<i>array dataset</i>	Dataset similar to the one above with (name="polCalScienceAngleVolt", description="fitted polynomial coefficients of science window for conversion angl")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="currents", description="currents")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="currentAngles", description="angles where currents are measured")

4.1.2. PACSCal Product Level - Chopper position readout versus chopper angle calibration for redundant chopper

<i>product (type="ChopperAngleRedundant", description="Chopper position readout versus chopper angle calibration for redundant chopper")</i>	
<i>Meta-data</i>	
String-Parameter	type (description="Product Type Identification")
String-Parameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Date of file creation")
String-Parameter	description (description="Name of this product")
String-Parameter	instrument (description="Instrument attached to this product")
String-Parameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
String-Parameter	formatVersion (description="Calfile format version")
String-Parameter	calFileId (description="null")
LongParameter	calFileVersion (description="null")

String-Parameter	author (description="Author of the data")
String-Parameter	fileName (description="null")
Columns	
array dataset	(description="FP II Voltage readback")
Metadata	
Columns	
DoubleId	(description="FP II Voltage readback", quantity="none")
	()
array dataset	Dataset similar to the one above with (name="angles", description="Deflection angle")
	()
array dataset	Dataset similar to the one above with (name="cor_voltages", description="zero offset corrected FP II Voltage readback")
	()
array dataset	Dataset similar to the one above with (name="cor_angles", description="zero offset corrected deflection angle")
	()
array dataset	Dataset similar to the one above with (name="zeissAmplification", description="Zeiss amplification factor")
	()
array dataset	Dataset similar to the one above with (name="cslAmplification", description="CSL amplification factor")
	()
array dataset	Dataset similar to the one above with (name="zeroPointOffset", description="Zero point offset")
	()
array dataset	Dataset similar to the one above with (name="adu2VoltConversion", description="conversion factor to convert decmec readouts to voltages")
	()
array dataset	Dataset similar to the one above with (name="ranges", description="3 deflection angle ranges of polynomial fits (Science, Calibration w)")
	()
array dataset	Dataset similar to the one above with (name="polCalNegVoltAngle", description="fitted polynomial coefficients of calibration window for conversion")
	()
array dataset	Dataset similar to the one above with (name="polCalPosVoltAngle", description="fitted polynomial coefficients of calibration window for conversion")
	()
array dataset	Dataset similar to the one above with (name="polScienceVoltAngle", description="fitted polynomial coefficients of science window for conversion volt")

	()
<i>array dataset</i>	Dataset similar to the one above with (name="polCalNegAngleVolt", description="fitted polynomial coefficients of calibration window for conversion")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="polCalPosAngleVolt", description="fitted polynomial coefficients of calibration window for conversion")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="polCalScienceAngleVolt", description="fitted polynomial coefficients of science window for conversion angl")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="currents", description="currents")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="currentAngles", description="angles where currents are measured")

4.1.3. PACSCal Product Level - Defines the thresholds in position readouts for the required accuracy of the final chopper positions for the science and calibration window

<i>product (type="ChopperJitterThreshold", description="Defines the thresholds in position readouts for the required accuracy of the final chopper positions for the science and calibration window")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Date of file creation")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start time of this product")
DateParameter	endDate (description="End time of this product")
StringParameter	formatVersion (description="Calfile format version")
StringParameter	calFileId (description="Product Type Identification")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="null")
<i>Columns</i>	
<i>array dataset</i>	(description="specified position accuracy threshold for a plateaux in calibration")
<i>Metadata</i>	
<i>Columns</i>	

<i>DoubleId</i>	(description="specified position accuracy threshold for a plateaux in calibration", quantity="none")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="scienceThreshold", description="specified position accuracy threshold for a plateaux in science wind")

4.1.4. PACSCal Product Level - Conversion factor for chopper physical deflection angle (degrees) to angle on sky (arcmin), and zero offset between mechanical and optical zero

<i>product</i> (type="ChopperSkyAngle", description="Conversion factor for chopper physical deflection angle (degrees) to angle on sky (arcmin), and zero offset between mechanical and optical zero")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
<i>Columns</i>	
<i>array dataset</i>	(description="zero offset between mechanical and optical zero")
<i>Metadata</i>	
<i>Columns</i>	
<i>IntId</i>	(description="zero offset between mechanical and optical zero", quantity="none")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="conversionFactor", description="conversion factor from chopper deflection (degrees) to angle on sky")

4.1.5. PACSCal Product Level - CS Resistance temperature conversion

<i>product</i> (<i>type="CsResistanceTemperature", description="CS Resistance temperature conversion"</i>)	
<i>Metadata</i>	
StringParameter	type (description="null")
StringParameter	creator (description="null")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="null")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="null")
StringParameter	calFileId (description="null")
StringParameter	productNotes (description="null")
StringParameter	versionNotes (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	fileName (description="null")
StringParameter	author (description="null")
<i>Columns</i>	
<i>composite</i>	(<i>description="Temperature - Resistance conversion table for the first internal ca"</i>)
<i>Metadata</i>	
<i>Columns</i>	
<i>array dataset</i>	(<i>description="Temperature values in Kelvin"</i>)
<i>Metadata</i>	
<i>Columns</i>	
<i>DoubleId</i>	(<i>description="Temperature values in Kelvin", quantity="K"</i>)
<i>array dataset</i>	(<i>description="Resistance values in Ohms"</i>)
<i>Metadata</i>	
<i>Columns</i>	
<i>DoubleId</i>	(<i>description="Resistance values in Ohms", quantity="Ohm"</i>)
	(<i>)</i>

<i>composite dataset</i>	Dataset similar to the one above with (name="cs2", description="Temperature - Resistace conversion table for the second internal ca")

4.1.6. PACSCal Product Level - Defines the wheel position (wpr) readout to band conversion

<i>product (type="FilterWheel2Band", description="Defines the wheel position (wpr) readout to band conversion")</i>	
<i>Metadata</i>	
StringParameter	type (description="type (Classname0 of the calibration product")
StringParameter	creator (description="Author of the data")
DateParameter	creationDate (description="Date of file creation")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument")
StringParameter	modelName (description="Instrument Model Name")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Calfile format version")
StringParameter	calFileId (description="Calfile type identifier")
StringParameter	author (description="Author of the data")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	fileName (description="FITS file name")
StringParameter	productNotes (description="Product Notes")
StringParameter	versionNotes (description="Version notes")
<i>Columns</i>	
<i>table dataset</i>	(name="filterBand", description="FilterWheel to Band Conversion")
<i>Metadata</i>	
<i>Columns</i>	
<i>IntId</i>	wpr (description="Wheel position readout", quantity="none")
<i>StringId</i>	band (description="Band", quantity="none")
<i>StringId</i>	camera (description="Camera : SPECBLUE, SPECRED, PHOTBLUE, PHOTRED", quantity="none")
<i>StringId</i>	description (description="Description", quantity="none")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

4.1.7. PACSCal Product Level - Describes the OBCPs of PACS

<i>product (type="ObcpDescription", description="Describes the OBCPs of PACS")</i>

<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="Calfile Type identifier")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	fileName (description="Filename used for saving FITS file")
StringParameter	author (description="The author of the product, i.e. the one that provides its contents, not its format.")
<i>Columns</i>	
<i>table dataset</i>	(name="OBCPDescription", description="OBCP and DMCS Description")
<i>Metadata</i>	
<i>Columns</i>	
<i>IntId</i>	OBCPNumber (description="OBCP Number", quantity="none")
<i>StringId</i>	OBCPDescription (description="OBCP Description", quantity="none")
<i>IntId</i>	DMCSNumber (description="DMC Sequence Number", quantity="none")
<i>StringId</i>	DMCSDescription (description="DMC Sequence Description", quantity="none")
()	
<i>table dataset</i>	Dataset similar to the one above with (name="OBCPBlocks", description="OBCP Block descriptions")

4.1.8. PACSCal Product Level - Spacecraft-Instrument alignment matrices

<i>product (type="Siam", description="Spacecraft-Instrument alignment matrices")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Date of file creation")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start time of this product")
DateParameter	endDate (description="End time of this product")

StringParameter	formatVersion (description="Calfile format version")
StringParameter	calFileId (description="Calfile type identifier")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="null")
StringParameter	starTracker (description="Active Star-tracker ID")
Columns	
array dataset	(description="Photometer SIAM")
Metadata	
StringParameter	apertureId (description="Aperture identifier")
DateParameter	validityStart (description="Start of calibration validity")
LongParameter	nSaa (description="Number of reference Solar Aspect Angles")
Columns	
Double2d	(description="Photometer SIAM", quantity="none")

4.1.9. PACSCal Product Level - Defines time dependency for calibration products.

<i>product (type="TimeDependency", description="Defines time dependency for calibration products.")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="Calfile Type identifier")
StringParameter	author (description="The author of the product, i.e. the one that provides its contents, not its format.")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	fileName (description="Filename used for saving FITS file")
StringParameter	scope (description="scope can take values of BASE, TEST, or BULK")
StringParameter	productNotes (description="null")
StringParameter	versionNotes (description="null")
Columns	
table dataset	(name="default", description="Time Dependency Table for FM")
Metadata	

StringParameter	modelName (description="The instrument model name")
DateParameter	lastUpdated (description="null")
StringParameter	lastUpdatedBy (description="null")
StringParameter	scope (description="scope can take values of BASE, TEST, PRIVATE, or BULK")
Columns	
StringId	type (description="null", quantity="none")
StringId	unit (description="null", quantity="none")
LongId	time (description="null", quantity="none")
LongId	version (description="null", quantity="none")
StringId	comment (description="null", quantity="none")

4.2. PACS Photometer Calibration Products

4.2.1. PACSCal Product Level - Absorption values Photometer

<i>product (type="Absorption", description="Absorption values Photometer")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Date of file creation")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Calfile format version")
StringParameter	calFileId (description="Calfile type identifier")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	author (description="Author of the data")
StringParameter	bands (description="PACS band")
StringParameter	fileName (description="null")
Columns	
array dataset	(description="null")
Metadata	
Columns	
FloatId	(description="null", quantity="none")
	()
array dataset	Dataset similar to the one above with (name="transmission", description="null")

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4.2.2. PACSCal Product Level - Aperture correction factors for pixfrac=1.0

<i>product</i> (type="ApertureCorrection", description="Aperture correction factors for pixfrac=1.0")	
<i>Meta-data</i>	
StringParameter	type (description="null")
StringParameter	creator (description="null")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="null")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="null")
StringParameter	calFileId (description="null")
StringParameter	productNotes (description="Short description in xml format")
StringParameter	versionNotes (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	fileName (description="null")
StringParameter	author (description="null")
<i>Columns</i>	
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Columns</i>	
<i>DoubleId</i>	(description="null", quantity="none")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="fm5BandBlue", description="null")
	()

<i>array dataset</i>	Dataset similar to the one above with (name="fm5BandGreen", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="fm5BandRed", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="fm6ApertureRadius", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="fm6BandBlue", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="fm6BandGreen", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="fm6BandRed", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="fm7ApertureRadius", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="fm7BandBlue", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="fm7BandGreen", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="fm7BandRed", description="null")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

4.2.3. PACSCal Product Level - Array to Instrument coordinate conversion

<i>product (type="ArrayInstrument", description="Array to Instrument coordinate conversion")</i>	
<i>Meta-data</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Date of file creation")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")

DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Calfile format version")
StringParameter	calFileId (description="Calfile type identifier")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="null")
Columns	
array dataset	(description="Maximum polynomial orders for y (blue)")
Metadata	
Columns	
IntId	(description="Maximum polynomial orders for y (blue)", quantity="none")
	()
array dataset	Dataset similar to the one above with (name="ycoeffblue", description="Cube with coefficients for y (blue)")
	()
array dataset	Dataset similar to the one above with (name="zorderblue", description="Maximum polynomial orders for z (blue)")
	()
array dataset	Dataset similar to the one above with (name="zcoeffblue", description="Cube with coefficients for z (blue)")
	()
array dataset	Dataset similar to the one above with (name="yorderred", description="Maximum polynomial orders for y (red)")
	()
array dataset	Dataset similar to the one above with (name="ycoeffred", description="Cube with coefficients for y (red)")
	()
array dataset	Dataset similar to the one above with (name="zorderred", description="Maximum polynomial orders for z (red)")
	()
array dataset	Dataset similar to the one above with (name="zcoeffred", description="Cube with coefficients for z (red)")
	()
array dataset	Dataset similar to the one above with (name="yordergreen", description="Maximum polynomial orders for y (green)")
	()

<i>array dataset</i>	Dataset similar to the one above with (name="ycoeffgreen", description="Cube with coefficients for y (green)")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="zordergreen", description="Maximum polynomial orders for z (green)")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="zcoeffgreen", description="Cube with coefficients for z (green)")

4.2.4. PACSCal Product Level - Bad pixels mask for PACS Photometer

<i>product (type="BadPixelMask", description="Bad pixels mask for PACS Photometer")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="null")
DateParameter	creationDate (description="null")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="null")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Calfile format version")
StringParameter	calFileId (description="Calfile type identifier")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="null")
StringParameter	fileName (description="null")
StringParameter	productNotes (description="null")
StringParameter	versionNotes (description="null")
LongParameter	version (description="null")
<i>Columns</i>	
<i>array dataset</i>	(description="Bad Pixels mask for the Red Photometer")
<i>Metadata</i>	
<i>Columns</i>	
<i>Bool2d</i>	(description="Bad Pixels mask for the Red Photometer", quantity="none")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="blue", description="Bad Pixels mask for the Blue Photometer")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="green", description="null")

4.2.5. PACSCal Product Level - Flux per pixel from the internal calibration sources (CSs) in the blue and red channel

<i>product (type="CalSources", description="Flux per pixel from the internal calibration sources (CSs) in the blue and red channel")</i>	
<i>Metada- ta</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Date of file creation")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="null")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Calfile format version")
StringParameter	calFileId (description="Calfile type identifier")
StringParameter	calFieldVersion (description="Calfile version")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="Calibration product fits filename")
LongParameter	calFileVersion (description="Calfile version")
<i>Columns</i>	
<i>array dataset</i>	<i>(description="CSs image cube through 70 microns filter")</i>
<i>Metadata</i>	
<i>Columns</i>	
<i>Double3d</i>	<i>(description="CSs image cube through 70 microns filter", quantity="none")</i>
	<i>()</i>
<i>array dataset</i>	Dataset similar to the one above with (name="chopper70", description="Chopper positions of CSs70")
	<i>()</i>

<i>array dataset</i>	Dataset similar to the one above with (name="CSs100", description="CSs image cube through 100 microns filter")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="chopper100", description="Chopper positions of CSs100")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="CSs160", description="CSs image cube through 160 microns filter")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="chopper160", description="Chopper positions of CSs160")

4.2.6. PACSCal Product Level - CL saturation limits

<i>product (type="CISaturationLimits", description="CL saturation limits")</i>	
<i>Metadata</i>	
StringParameter	type (description="null")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="null")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="null")
StringParameter	calFileId (description="null")
StringParameter	productNotes (description="null")
StringParameter	versionNotes (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	fileName (description="null")
StringParameter	author (description="null")
<i>Columns</i>	
<i>array dataset</i>	(description="CL saturation limits")
<i>Metadata</i>	
<i>Columns</i>	
<i>DoubleId</i>	(description="CL saturation limits", quantity="mV")

4.2.7. PACSCal Product Level - SurfCal_20061120 calibration VRL-VH_BLIND for saturation limits computation

<i>product</i> (type="CITransferFunction", description="SurfCal_20061120 calibration VRL-VH_BLIND for saturation limits computation")	
<i>Metadata</i>	
StringParameter	type (description="null")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="null")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="null")
StringParameter	calFileId (description="null")
StringParameter	productNotes (description="null")
StringParameter	versionNotes (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	fileName (description="null")
StringParameter	author (description="null")
<i>Columns</i>	
<i>array dataset</i>	(description="calvhb - [6,25,5] the values of VH_BLIND used in the calibration, p")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double3d</i>	(description="calvhb - [6,25,5] the values of VH_BLIND used in the calibration, p", quantity="V")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="vrl", description="calvrl - [6,25,5] the values of VRL used in the calibration, per gr")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="surface", description="surf - [10,16,16,25,5] the output signal for every VRL (25) and eve")

4.2.8. PACSCal Product Level - Cooler recycling Times

<i>product</i> (type="CoolerRecyclingTimes", description="Cooler recycling Times")	
<i>Meta-data</i>	
StringParameter	type (description="null")

StringParameter	creator (description="null")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="null")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="null")
StringParameter	calFileId (description="null")
StringParameter	productNotes (description="Short description in xml format")
StringParameter	versionNotes (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	fileName (description="null")
StringParameter	author (description="null")
LongParameter	queryTime (description="null")
StringParameter	queryTimeAsString (description="null")
<i>Columns</i>	
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Columns</i>	
<i>LongId</i>	(description="null", quantity="none")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="obsMode", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="odNumber", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="stTimeHseHeater", description="null")
	()

<i>array dataset</i>	Dataset similar to the one above with (name="stTimeHseHeaterH", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="stTimeHseHeaterBis", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="stTimeHseHeaterBisH", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="stTimePumpHeater", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="stTimePumpHeaterH", description="null")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

4.2.9. PACSCal Product Level - Zero-level corr for PACS Photometer based on the low-freq noise observations of OD97

<i>product</i> (type="CorrZeroLevel", description="Zero-level corr for PACS Photometer based on the low-freq noise observations of OD97")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="null")
DateParameter	creationDate (description="Date of file creation")
StringParameter	description (description="null")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Calfile format version")
StringParameter	calFileId (description="Calfile type identifier")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="null")
<i>Columns</i>	
<i>array dataset</i>	(description="Zero-level corr for the Blue Photometer")
<i>Metadata</i>	
<i>Columns</i>	

<i>Float2d</i>	(description="Zero-level corr for the Blue Photometer", quantity="none")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="green", description="Zero-level corr for the Green Photometer")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="red", description="Zero-level for the Red Photometer")

4.2.10. PACSCal Product Level - Photometer Crosstalk matrix for red and blue channel

<i>product (type="CrosstalkMatrix", description="Photometer Crosstalk matrix for red and blue channel")</i>	
<i>Metadata</i>	
StringParameter	type (description="Photometer Crosstalk Matrix")
StringParameter	creator (description="creator of this calfile")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="description of this calfile")
StringParameter	instrument (description="null")
StringParameter	modelName (description="null")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Calfile format version")
LongParameter	creationDate_ILLEGAL_FORMAT (description="Date of file creation")
StringParameter	calFileId (description="Photometer Crosstalk Matrix")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	author (description="Author of Data")
StringParameter	fileName (description="Calfile product fits filename")
<i>Columns</i>	
<i>array dataset</i>	(description="Photometer Crosstalk matrix for red channel")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double2d</i>	(description="Photometer Crosstalk matrix for red channel", quantity="none")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="blue", description="Photometer Crosstalk matrix for blue channel")

4.2.11. PACSCal Product Level - Time shifts for red and blue photometer detector readouts

<i>product (type="DetectorReadoutTimeShift", description="Time shifts for red and blue photometer detector readouts")</i>	
<i>Metadata</i>	
StringParameter	type (description="null")
StringParameter	creator (description="null")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Description")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="null")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="null")
StringParameter	fileName (description="null")
StringParameter	author (description="null")
StringParameter	calFileId (description="null")
StringParameter	productNotes (description="null")
StringParameter	versionNotes (description="null")
LongParameter	calFileVersion (description="Calfile Version")
<i>Columns</i>	
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Columns</i>	
<i>Int2d</i>	(description="null", quantity="none")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Red", description="null")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

4.2.12. PACSCal Product Level - Detector sorting matrices for the red and blue photometer.

<i>product (type="DetectorSortMatrix", description="Detector sorting matrices for the red and blue photometer.")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Date of file creation")

StringParameter	description (description="Name of this product")		
StringParameter	instrument (description="Instrument attached to this product")		
StringParameter	modelName (description="Model name attached to this product")		
DateParameter	startDate (description="Start time of this product")		
DateParameter	endDate (description="End time of this product")		
StringParameter	formatVersion (description="Calfile format version")		
StringParameter	calFileId (description="Calfile type identifier")		
LongParameter	calFileVersion (description="Calfile version")		
StringParameter	author (description="Author of the data")		
StringParameter	fileName (description="Calibration product fits file")		
Columns			
array dataset	(description="null")		
Metadata			
Columns			
Int2d	(description="null", quantity="none")		
	()		
array dataset	Dataset similar to the one above with (name="blue", description="null")		

4.2.13. PACSCal Product Level - Difference of CS1 and CS2

<i>product (type="DiffCS", description="Difference of CS1 and CS2")</i>	
Metada- ta	
StringParame- ter	type (description="null")
StringParame- ter	creator (description="null")
DateParame- ter	creationDate (description="Creation date of this product")
StringParame- ter	description (description="Name of this product")
StringParame- ter	instrument (description="Instrument attached to this product")
StringParame- ter	modelName (description="null")
DateParame- ter	startDate (description="Start date of this product")
DateParame- ter	endDate (description="End date of this product")
StringParame- ter	formatVersion (description="null")
StringParame- ter	productNotes (description="Short description in xml format")

StringParameter	versionNotes (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	fileName (description="null")
StringParameter	author (description="null")
StringParameter	calFileId (description="CalFile Type identifier")
StringParameter	channel (description="channel(s) stored")
<i>Columns</i>	
<i>compose</i>	(description="null")
<i>Metadata</i>	
DoubleParameter	cs1CPR (description="chopper position unit=(CU)", quantity="1")
DoubleParameter	cs1Bias (description=" VH-VL ", quantity="V")
DoubleParameter	cs1Vlow (description="Vl voltage", quantity="V")
StringParameter	Mode (description="possible readout mode values : {Direct,DDCS}", quantity="V")
DoubleParameter	cs1Gain (description="possible values: {0=high,1=low}", quantity="1")
DoubleParameter	cs1Temperature (description="Temperature of cs1", quantity="K")
DateParameter	cs1Time (description="creation date", quantity="K")
DoubleParameter	cs2CPR (description="chopper position unit=(CU)", quantity="1")
DoubleParameter	cs2Bias (description=" VH-VL ", quantity="V")
DoubleParameter	cs2Vlow (description="Vl voltage", quantity="V")
DoubleParameter	cs2Gain (description="possible values: {0=high,1=low}", quantity="1")
DoubleParameter	cs2Temperature (description="Temperature of cs1", quantity="K")
DateParameter	cs2Time (description="creation date", quantity="K")
LongParameter	obsid (description="observation identifier", quantity="1")
<i>Columns</i>	
<i>array dataset</i>	(description="CS1-CS2")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double2d</i>	(description="CS1-CS2", quantity="V")
<i>array dataset</i>	(description="CS1-CS2 noise")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double2d</i>	(description="CS1-CS2 noise", quantity="V")
<i>array dataset</i>	(description="Masked pixel")
<i>Metadata</i>	
<i>Columns</i>	
<i>Bool2d</i>	(description="Masked pixel", quantity="1")

<i>array dataset</i> (description="Unitary coverage")	
<i>Metadata</i>	
<i>Columns</i>	
<i>Int2d</i>	(description="Unitary coverage", quantity="1")

4.2.14. PACSCal Product Level - FilterTransmission

<i>product</i> (type="FilterTransmission", description="FilterTransmission")	
<i>Metadata</i>	
StringParameter	type (description="null")
StringParameter	creator (description="null")
DateParameter	creationDate (description="Date of file creation")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="null")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="null")
StringParameter	calFileId (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="null")
StringParameter	bands (description="PACS band")
StringParameter	fileName (description="null")
StringParameter	title (description="null")
StringParameter	productNotes (description="null")
StringParameter	versionNotes (description="null")
<i>Columns</i>	
<i>table dataset</i> (name="red", description="Filter transmission")	
<i>Metadata</i>	
DoubleParameter	incidentAngleX (description="Euler X angle(deg) of incident ray in instrument frame (ZY=plane filter)")
DoubleParameter	incidentAngleY (description="Euler Y angle(deg) of incident ray in instrument frame (ZY=plane filter)")
DoubleParameter	incidentAngleZ (description="Euler Z angle(deg) of incident ray in instrument frame (ZY=plane filter)")
StringParameter	band (description="Filter band")
StringParameter	sourceFile (description="Source file used to build this transmission")
<i>Columns</i>	
<i>Float1d</i>	transmission (description="Wavelengths", quantity="1")
<i>Float1d</i>	wavelength (description="Transmission", quantity="micrometer")

4.2.15. PACSCal Product Level - FlatFields calibration product for the red and blue photometer.

<i>product (type="FlatField", description="FlatFields calibration product for the red and blue photometer.")</i>	
<i>Meta-data</i>	
StringParameter	type (description="null")
StringParameter	creator (description="null")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="null")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="short description in xml format")
StringParameter	versionNotes (description="generator script: FlatFieldBuilder_v7_koryo.py")
LongParameter	calFileVersion (description="null")
StringParameter	fileName (description="null")
StringParameter	author (description="null")
StringParameter	calFileId (description="null")
<i>Columns</i>	
<i>compose</i>	<i>(description="null")</i>
<i>Metadata</i>	
DoubleParameter	MeanFlux (description="<f1-f2>", quantity="Jy")
DoubleParameter	DeltaFlux (description=" f1-f2 ", quantity="Jy")
StringParameter	Summary (description="Flat field building context", quantity="Jy")
DoubleParameter	Bias (description="bias voltage (vh-vl)", quantity="V")
DoubleParameter	Vlow (description="low voltage", quantity="V")

DoubleParameter	Mode (description="possible readout mode values : {0=DDCS,<>0=Direct}", quantity="V")
DateParameter	CreationDate (description="creation date", quantity="V")
LongParameter	Obsid (description="observation identifier", quantity="1")
DoubleParameter	Gain (description="possible values: {0=high,1=low}", quantity="1")
Columns	
array dataset	(description="red flat field dimensionless")
Metadata	
Columns	
Double2d	(description="red flat field dimensionless", quantity="1")
array dataset	(description="red noise dimensionless")
Metadata	
Columns	
Double2d	(description="red noise dimensionless", quantity="1")
array dataset	(description="red mask")
Metadata	
Columns	
Bool2d	(description="red mask", quantity="1")
array dataset	(description="red coverage")
Metadata	
Columns	
Int2d	(description="red coverage", quantity="1")

4.2.16. PACSCal Product Level - Photometer Gain parameters for Digits to Volts conversion

<i>product (type="Gain", description="Photometer Gain parameters for Digits to Volts conversion")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Date of file creation")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start time of this product")
DateParameter	endDate (description="End time of this product")
StringParameter	formatVersion (description="Calfile format version")
StringParameter	calFileId (description="Calfile type identifier")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="null")
Columns	

<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Columns</i>	
<i>DoubleId</i>	(description="null", quantity="none")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="photOffset", description="null")

4.2.17. PACSCal Product Level - Noise2Noise correlation for MadMap

<i>product</i> (type="Invntt", description="Noise2Noise correlation for MadMap")	
<i>Metadata</i>	
StringParameter	type (description="null")
StringParameter	creator (description="null")
DateParameter	creationDate (description="Date of file creation")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="null")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Calfile format version")
StringParameter	calFileId (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="null")
<i>Columns</i>	
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double2d</i>	(description="null", quantity="none")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Ndetectors", description="null")

4.2.18. PACSCal Product Level - BL band inverse noise time-time correlation for MadMap based on the Version 1 of the Invntt cal data.

<i>product (type="InvnttBL", description="BL band inverse noise time-time correlation for MadMap based on the Version 1 of the Invntt cal data.")</i>	
<i>Metada- ta</i>	
StringParameter	type (description="null")
StringParameter	creator (description="null")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="null")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="null")
StringParameter	calFileId (description="null")
StringParameter	author (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	versionNotes (description="null")
StringParameter	fileName (description="null")
<i>Columns</i>	
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double2d</i>	(description="null", quantity="none")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Ndetectors", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Invntt10hz", description="null")

	()
<i>array dataset</i>	Dataset similar to the one above with (name="Invntt10hz_avg", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Invntt5hz", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="Invntt5hz_avg", description="null")

4.2.19. PACSCal Product Level - BS band inverse noise time-time correlation for MadMap based on the Version 1 of the Invntt cal data.

<i>product (type="InvnttBS", description="BS band inverse noise time-time correlation for MadMap based on the Version 1 of the Invntt cal data.")</i>	
<i>Metada- ta</i>	
StringParameter	type (description="null")
StringParameter	creator (description="null")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="null")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="null")
StringParameter	calFileId (description="null")
StringParameter	author (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	versionNotes (description="null")
StringParameter	fileName (description="null")
<i>Columns</i>	

<i>array dataset</i>	(<i>description="null"</i>)
<i>Metadata</i>	
<i>Columns</i>	
<i>Double2d</i>	(<i>description="null", quantity="none"</i>)
	()
<i>array dataset</i>	Dataset similar to the one above with (<i>name="Ndetectors", description="null"</i>)
	()
<i>array dataset</i>	Dataset similar to the one above with (<i>name="Invntt10hz", description="null"</i>)
	()
<i>array dataset</i>	Dataset similar to the one above with (<i>name="Invntt10hz_avg", description="null"</i>)
	()
<i>array dataset</i>	Dataset similar to the one above with (<i>name="Invntt5hz", description="null"</i>)
	()
<i>array dataset</i>	Dataset similar to the one above with (<i>name="Invntt5hz_avg", description="null"</i>)

4.2.20. PACSCal Product Level - RED band inverse noise time-time correlation for MadMap based on the Version 1 of the Invntt cal data.

<i>product (type="InvnttRed", description="RED band inverse noise time-time correlation for MadMap based on the Version 1 of the Invntt cal data.")</i>	
<i>Meta-data</i>	
StringParameter	type (<i>description="null"</i>)
StringParameter	creator (<i>description="null"</i>)
DateParameter	creationDate (<i>description="Creation date of this product"</i>)
StringParameter	description (<i>description="null"</i>)
StringParameter	instrument (<i>description="null"</i>)
StringParameter	modelName (<i>description="null"</i>)
DateParameter	startDate (<i>description="Start date of this product"</i>)
DateParameter	endDate (<i>description="End date of this product"</i>)
StringParameter	formatVersion (<i>description="null"</i>)

StringParameter	calFileId (description="null")
StringParameter	author (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	versionNotes (description="null")
StringParameter	fileName (description="null")
Columns	
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="none")
	()
array dataset	Dataset similar to the one above with (name="Ndetectors", description="null")
	()
array dataset	Dataset similar to the one above with (name="Invntt10hz", description="null")
	()
array dataset	Dataset similar to the one above with (name="Invntt10hz_avg", description="null")
	()
array dataset	Dataset similar to the one above with (name="Invntt5hz", description="null")
	()
array dataset	Dataset similar to the one above with (name="Invntt5hz_avg", description="null")

4.2.21. PACSCal Product Level - Boolean-2D arrays marking the positions of permanently damaged or u

<i>product (type="Masks", description="Boolean-2D arrays marking the positions of permanently damaged or u")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Date of file creation")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start time of this product")
DateParameter	endDate (description="End time of this product")
StringParameter	formatVersion (description="Calfile format version")

StringParameter	calFileId (description="Calfile type identifier")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="Calibration product fits filename")
LongParameter	calFileVersion (description="Calfile version")
Columns	
array dataset	(description="Mask of operational pixels on bolometer red")
Metadata	
Columns	
Bool2d	(description="Mask of operational pixels on bolometer red", quantity="none")
	()
array dataset	Dataset similar to the one above with (name="blue", description="Mask of operational pixels on bolometer blue")

4.2.22. PACSCal Product Level - Noise for each pixel to populate the starting values in the noise cube

<i>product (type="NoisePerPixel", description="Noise for each pixel to populate the starting values in the noise cube")</i>	
Metada- ta	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="NoisePerPixel")
StringParameter	author (description="The author of the product, i.e. the one that provides its contents, not its format.")
LongParameter	calFileVersion (description="Calfile version")

StringParameter	fileName (description="Filename used for saving FITS file")
StringParameter	PACS_PHOT_MODE (description="Bolometer readout mode")
DoubleParameter	BOL_VD_B_1 (description="Bias blue group 1")
DoubleParameter	BOL_VD_B_2 (description="Bias blue group 2")
DoubleParameter	BOL_VD_B_3 (description="Bias blue group 3")
DoubleParameter	BOL_VD_B_4 (description="Bias blue group 4")
DoubleParameter	BOL_VD_R_1 (description="Bias red group 1")
DoubleParameter	BOL_VD_R_2 (description="Bias red group 2")
Columns	
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="none")
	()
array dataset	Dataset similar to the one above with (name="noiseMapRed8", description="null")
	()
array dataset	Dataset similar to the one above with (name="noiseMapGreen4", description="null")
	()
array dataset	Dataset similar to the one above with (name="noiseMapGreen8", description="null")
	()
array dataset	Dataset similar to the one above with (name="noiseMapBlue8", description="null")
	()
array dataset	Dataset similar to the one above with (name="noiseMapBlue4", description="null")

4.2.23. PACSCal Product Level - Coefficients for non-linearity corrections from logarithmic fit to middle points

<i>product (type="NonLinearCoef", description="Coefficients for non-linearity corrections from logarithmic fit to middle points")</i>	
Metadata	

StringParameter	type (description="null")
StringParameter	creator (description="null")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="null")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="null")
StringParameter	calFileId (description="null")
StringParameter	author (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	versionNotes (description="Information about this specific cal file version")
StringParameter	productNotes (description="short description in xml format")
Columns	
array dataset	(description="Coef for Blue array: $c[0] + c[1]*x + c[2]*x**2$ ")
Metadata	
Columns	
Double3d	(description="Coef for Blue array: $c[0] + c[1]*x + c[2]*x**2$ ", quantity="none")
	()
array dataset	Dataset similar to the one above with (name="green", description="Coef for Green array: $c[0] + c[1]*x + c[2]*x**2$ ")
	()
array dataset	Dataset similar to the one above with (name="red", description="Coef for Red array: $c[0] + c[1]*x + c[2]*x**2$ ")

4.2.24. PACSCal Product Level - thresholds used to raise an alert on bad photometric stability

<i>product (type="PhotometricStabilityThreshold", description="thresholds used to raise an alert on bad photometric stability")</i>	
Metadata	
StringParameter	type (description="null")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")

StringParameter	modelName (description="null")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="null")
StringParameter	versionNotes (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	fileName (description="null")
StringParameter	author (description="null")
StringParameter	calFileId (description="null")
Columns	
composite	(description="red")
Metadata	
Columns	
array dataset	(description="Min and max thresholds")
Metadata	
Columns	
DoubleId	(description="Min and max thresholds", quantity="1")
	()
composite dataset	Dataset similar to the one above with (name="blue", description="blue")
	()
composite dataset	Dataset similar to the one above with (name="green", description="green")

4.2.25. PACSCal Product Level - Responsivity calibration product for red and blue photometers.

<i>product (type="Responsivity", description="Responsivity calibration product for red and blue photometers.")</i>	
Metadata	
StringParameter	type (description="null")
StringParameter	creator (description="null")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="null")
DateParameter	startDate (description="Start date of this product")

DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="short description in xml format")
StringParameter	versionNotes (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	fileName (description="null")
StringParameter	author (description="null")
StringParameter	calFileId (description="null")
Columns	
composite	(description="null")
Metadata	
DoubleParameter	EffectiveAperture (description="primary mirror surface", quantity="m2")
DoubleParameter	Bandwidth (description="Bandwidth related to the reference wavelength", quantity="Hz")
DoubleParameter	RefWavelength (description="Reference wavelength in micrometer", quantity="micrometer")
DoubleParameter	Responsivity (description="Responsivity in V/Jy per pixel", quantity="V Jy-1")
DoubleParameter	Bias (description="bias voltage (vh-vl)", quantity="V")
DoubleParameter	Vlow (description="low voltage", quantity="V")
StringParameter	Mode (description="readout mode of the electronic chain = {DDCS,Di", quantity="V")
LongParameter	Gain (description="Gain of the electronic chain = {low,high}", quantity="1")
LongParameter	Obsid (description="OBServation IDentifier", quantity="1")
DateParameter	CreationDate (description="creation date", quantity="1")
DoubleParameter	toInBandFlux (description="Jy/pW.px - based on the absorbed flux", quantity="Jy pW-1")
Columns	
array dataset	(description="Responsivity in V/Jy per pixel")
Metadata	
Columns	
DoubleId	(description="Responsivity in V/Jy per pixel", quantity="V Jy-1")

4.2.26. PACSCal Product Level - Matrix of saturation values for Photometer

<i>product (type="SatLimits", description="Matrix of saturation values for Photometer")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Date of file creation")
StringParameter	description (description="Name of this product")

StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start time of this product")
DateParameter	endDate (description="End time of this product")
StringParameter	formatVersion (description="Calfile format version")
StringParameter	calFileId (description="Calfile type identifier")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="null")
StringParameter	versionNotes (description="Information about this specific cal file version")
StringParameter	productNotes (description="short description in xml format")
Columns	
array dataset	(description="Saturation values signed modes")
Metadata	
Columns	
IntId	(description="Saturation values signed modes", quantity="none")
	()
array dataset	Dataset similar to the one above with (name="satValuesUnsigned", description="Saturation values unsigned modes")

4.2.27. PACSCal Product Level - Coordinate conversion (row, col) -> (U,V) for the bolometer arrays

<i>product (type="SubArrayArray", description="Coordinate conversion (row, col) -> (U,V) for the bolometer arrays")</i>	
Meta-data	
String-Parameter	type (description="Product Type Identification")
String-Parameter	creator (description="Creator of this Product")
DateParameter	creationDate (description="Creation date of this product")
String-Parameter	description (description="Description of this Product")
String-Parameter	instrument (description="instrument attached to this Product")
String-Parameter	modelName (description="model name attached to this Product")

DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
String-Parameter	formatVersion (description="Calfile Format version")
String-Parameter	calFileId (description="Calfile Type identifier")
Long-Parameter	calFileVersion (description="Calfile format version")
String-Parameter	fileName (description="filename of the calfile")
String-Parameter	author (description="Author of this Product")
DoubleParameter	activeFraction (description="Active fraction of pixel")
<i>Columns</i>	
<i>array dataset</i>	(description="u coordinates for red array - pixel center")
<i>Meta-data</i>	
<i>Columns</i>	
<i>Double2d</i>	(description="u coordinates for red array - pixel center", quantity="none")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="vred", description="v coordinates for red array - pixel center")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="ubblue", description="u coordinates for blue array - pixel center")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="vblue", description="b coordinates for blue array - pixel center")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="uredtopleft", description="u coordinates for red array - top left pixel corner")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="vredtopleft", description="v coordinates for red array - top left pixel corner")
	()

<i>array</i>	Dataset similar to the one above with (name="ubluetopleft", description="u coordinates for blue array - top left pixel corner")
<i>dataset</i>	
	()
<i>array</i>	Dataset similar to the one above with (name="vbluetopleft", description="b coordinates for blue array - top left pixel corner")
<i>dataset</i>	
	()
<i>array</i>	Dataset similar to the one above with (name="uredtopright", description="u coordinates for red array - top right pixel corner")
<i>dataset</i>	
	()
<i>array</i>	Dataset similar to the one above with (name="vredtopright", description="v coordinates for red array - top right pixel corner")
<i>dataset</i>	
	()
<i>array</i>	Dataset similar to the one above with (name="ubluetopright", description="u coordinates for blue array - top right pixel corner")
<i>dataset</i>	
	()
<i>array</i>	Dataset similar to the one above with (name="vbluetopright", description="b coordinates for blue array - top right pixel corner")
<i>dataset</i>	
	()
<i>array</i>	Dataset similar to the one above with (name="uredbottomright", description="u coordinates for red array - bottom right pixel corner")
<i>dataset</i>	
	()
<i>array</i>	Dataset similar to the one above with (name="vredbottomright", description="v coordinates for red array - bottom right pixel corner")
<i>dataset</i>	
	()
<i>array</i>	Dataset similar to the one above with (name="ubbluebottomright", description="u coordinates for blue array - bottom right pixel corner")
<i>dataset</i>	
	()
<i>array</i>	Dataset similar to the one above with (name="vbluebottomright", description="b coordinates for blue array - bottom right pixel corner")
<i>dataset</i>	
	()
<i>array</i>	Dataset similar to the one above with (name="uredbottomleft", description="u coordinates for red array - bottom left pixel corner")
<i>dataset</i>	
	()
<i>array</i>	Dataset similar to the one above with (name="vredbottomleft", description="v coordinates for red array - bottom left pixel corner")
<i>dataset</i>	
	()
<i>array</i>	Dataset similar to the one above with (name="ubbluebottomleft", description="u coordinates for blue array - bottom left pixel corner")
<i>dataset</i>	
	()
<i>array</i>	Dataset similar to the one above with (name="vbluebottomleft", description="b coordinates for blue array - bottom left pixel corner")
<i>dataset</i>	

4.2.28. PACSCal Product Level - Evaporator temperature correction parameters for the red and blue photometer

<i>product (type="TevCorrection", description="Evaporator temperature correction parameters for the red and blue photometer")</i>	
<i>Metada- ta</i>	
StringParameter	type (description="Evaporator temperature correction parameters")
StringParameter	creator (description="Creator of this calibration product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="null")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="short description in xml format")
StringParameter	versionNotes (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	fileName (description="null")
StringParameter	author (description="null")
StringParameter	calFileId (description="null")
<i>Columns</i>	
<i>compos- ite</i>	<i>(description="null")</i>
<i>Metadata</i>	
StringParameter	Summary (description="Tev correction data source")
DateParameter	CreationDate (description="creation date")
<i>Columns</i>	
<i>array dataset</i>	<i>(description="null")</i>

<i>Metadata</i>	
<i>Columns</i>	
<i>Double2d</i>	(description="null", quantity="none")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double2d</i>	(description="null", quantity="none")
()	
<i>composite dataset</i>	Dataset similar to the one above with (name="blue", description="null")
()	
<i>composite dataset</i>	Dataset similar to the one above with (name="green", description="null")

4.3. PACS Spectrometer Calibration Products

4.3.1. PACSCal Product Level - contains the measured capacitances for the red and blue array

<i>product (type="AbsoluteCapacitance", description="contains the measured capacitances for the red and blue array")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
<i>Columns</i>	
<i>array dataset</i>	(description="measured capacitances per red pixel")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double3d</i>	(description="measured capacitances per red pixel", quantity="pF")
()	
<i>array dataset</i>	Dataset similar to the one above with (name="blue", description="measured capacitances per blue pixel")

		()
<i>array dataset</i>		Dataset similar to the one above with (name="redError", description="measured capacitances errors per red pixel")
		()
<i>array dataset</i>		Dataset similar to the one above with (name="blueError", description="measured capacitances errors per blue pixel")

4.3.2. PACSCal Product Level - Array to Instrument coordinate conversion

<i>product (type="ArrayInstrument", description="Array to Instrument coordinate conversion")</i>	
Meta-data	
String-Parameter	type (description="Product Type Identification")
String-Parameter	creator (description="null")
DateParameter	creationDate (description="null")
String-Parameter	description (description="Name of this product")
String-Parameter	instrument (description="Instrument attached to this product")
String-Parameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
String-Parameter	formatVersion (description="Calfile Format version")
String-Parameter	calFileId (description="null")

	parameter	
String-Parameter	fileName (description="null")	
Long-Parameter	calFileVersion (description="null")	
String-Parameter	author (description="Author of the data")	
Columns		
array dataset	(description="Maximum polynomial orders for y (blue)")	
Meta-data		
Columns		
Int Id	(description="Maximum polynomial orders for y (blue)", quantity="none")	
	()	
array dataset	Dataset similar to the one above with (name="ycoeffblue", description="Cube with coefficients for y (blue)")	
	()	
array dataset	Dataset similar to the one above with (name="zorderblue", description="Maximum polynomial orders for z (blue)")	
	()	
array dataset	Dataset similar to the one above with (name="zcoeffblue", description="Cube with coefficients for z (blue)")	
	()	
array dataset	Dataset similar to the one above with (name="yorderred", description="Maximum polynomial orders for y (red)")	
	()	
array dataset	Dataset similar to the one above with (name="ycoeffred", description="Cube with coefficients for y (red)")	
	()	
array dataset	Dataset similar to the one above with (name="zorderred", description="Maximum polynomial orders for z (red)")	
	()	
array dataset	Dataset similar to the one above with (name="zcoeffred", description="Cube with coefficients for z (red)")	
	()	
array dataset	Dataset similar to the one above with (name="yorderbluesmall", description="Maximum polynomial orders for y (blue) for small chopper deflections")	
	()	

<i>array dataset</i>	Dataset similar to the one above with (name="ycoeffbluesmall", description="Cube with coefficients for y (blue) for small chopper deflections")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="zorderbluesmall", description="Maximum polynomial orders for z (blue) for small chopper deflections")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="zcoeffbluesmall", description="Cube with coefficients for z (blue) for small chopper deflections")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="yorderredsmall", description="Maximum polynomial orders for y (red) for small chopper deflections")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="ycoeffredsmall", description="Cube with coefficients for y (red) for small chopper deflections")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="zorderredsmall", description="Maximum polynomial orders for z (red) for small chopper deflections")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="zcoeffredsmall", description="Cube with coefficients for z (red) for small chopper deflections")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="yorderbluemedium", description="Maximum polynomial orders for y (blue) for medium chopper deflections")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="ycoeffbluemedium", description="Cube with coefficients for y (blue) for medium chopper deflections")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="zorderbluemedium", description="Maximum polynomial orders for z (blue) for medium chopper deflections")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="zcoeffbluemedium", description="Cube with coefficients for z (blue) for medium chopper deflections")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="yorderredmedium", description="Maximum polynomial orders for y (red) for medium chopper deflections")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="ycoeffredmedium", description="Cube with coefficients for y (red) for medium chopper deflections")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="zorderredmedium", description="Maximum polynomial orders for z (red) for medium chopper deflections")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="zcoeffredmedium", description="Cube with coefficients for z (red) for medium chopper deflections")
	()

<i>array</i>	Dataset similar to the one above with (name="yorderbluelarge", description="Maximum polynomial orders for y (blue) for large chopper deflections")
<i>dataset</i>	
	()
<i>array</i>	Dataset similar to the one above with (name="ycoeffbluelarge", description="Cube with coefficients for y (blue) for large chopper deflections")
<i>dataset</i>	
	()
<i>array</i>	Dataset similar to the one above with (name="zorderbluelarge", description="Maximum polynomial orders for z (blue) for large chopper deflections")
<i>dataset</i>	
	()
<i>array</i>	Dataset similar to the one above with (name="zcoeffbluelarge", description="Cube with coefficients for z (blue) for large chopper deflections")
<i>dataset</i>	
	()
<i>array</i>	Dataset similar to the one above with (name="yorderredlarge", description="Maximum polynomial orders for y (red) for large chopper deflections")
<i>dataset</i>	
	()
<i>array</i>	Dataset similar to the one above with (name="ycoeffredlarge", description="Cube with coefficients for y (red) for large chopper deflections")
<i>dataset</i>	
	()
<i>array</i>	Dataset similar to the one above with (name="zorderredlarge", description="Maximum polynomial orders for z (red) for large chopper deflections")
<i>dataset</i>	
	()
<i>array</i>	Dataset similar to the one above with (name="zcoeffredlarge", description="Cube with coefficients for z (red) for large chopper deflections")
<i>dataset</i>	

4.3.3. PACSCal Product Level - Bad pixels mask for PACS spectrometer.

<i>product</i> (type="BadPixelMask", description="Bad pixels mask for PACS spectrometer.")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Date of file creation")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Calfile format version")
StringParameter	calFileId (description="null")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="null")
<i>Columns</i>	

<i>array dataset</i>	(description="Bad Pixels mask for the Red Spectrometer")
<i>Metadata</i>	
<i>Columns</i>	
<i>Bool2d</i>	(description="Bad Pixels mask for the Red Spectrometer", quantity="none")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="blue", description="Bad Pixels mask for the Blue Spectrometer")

4.3.4. PACSCal Product Level - Observed FWHM of the beam vs. wavelength

<i>product</i>	(type="BeamSize", description="Observed FWHM of the beam vs. wavelength")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	calFileId (description="Calfile Type identifier")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	fileName (description="Filename used for saving FITS file")
StringParameter	author (description="The author of the product, i.e. the one that provides its contents, not its format.")
StringParameter	versionNotes (description="nullnullnullnullInformation about this specific cal file version")
<i>Columns</i>	
<i>table dataset</i>	(name="beamSize", description="Observed FWHM of the beam vs. wavelength")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double1d</i>	wavelength (description="Wavelength", quantity="micrometer")
<i>Double1d</i>	fwhm (description="FWHM", quantity="arcsec")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

4.3.5. PACSCal Product Level - pointing correction raster for one spectral band

<i>product</i> (type="BeamsB2A", description="pointing correction raster for one spectral band")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="null")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="null")
StringParameter	calFileId (description="Calfile Type identifier")
StringParameter	productNotes (description="null")
StringParameter	versionNotes (description="null")
StringParameter	band (description="null")
StringParameter	author (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
DoubleParameter	raster_stepsize (description="raster step distance", quantity="arcsec")
<i>Columns</i>	
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Columns</i>	
<i>DoubleId</i>	(description="null", quantity="none")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="intensity", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="fwhm", description="fwhm of central beam for each grating position")

	()
<i>array dataset</i>	Dataset similar to the one above with (name="spaxelPosX", description="mean spaxel position in X")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="spaxelPosY", description="mean spaxel position in Y")

4.3.6. PACSCal Product Level - pointing correction raster for one spectral band

<i>product (type="BeamsB2B", description="pointing correction raster for one spectral band")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="null")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="null")
StringParameter	calFileId (description="Calfile Type identifier")
StringParameter	productNotes (description="null")
StringParameter	versionNotes (description="null")
StringParameter	band (description="null")
StringParameter	author (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
DoubleParameter	raster_stepsize (description="raster step distance", quantity="arcsec")
<i>Columns</i>	
<i>array dataset</i>	(description="null")
<i>Metadata</i>	

<i>Columns</i>	
<i>DoubleId</i>	(description="null", quantity="none")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="intensity", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="fwhm", description="fwhm of central beam for each grating position")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="spaxelPosX", description="mean spaxel position in X")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="spaxelPosY", description="mean spaxel position in Y")

4.3.7. PACSCal Product Level - pointing correction raster for one spectral band

<i>product (type="BeamsB3A", description="pointing correction raster for one spectral band")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="null")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="null")
StringParameter	calFileId (description="Calfile Type identifier")
StringParameter	productNotes (description="null")
StringParameter	versionNotes (description="null")
StringParameter	band (description="null")
StringParameter	author (description="null")

StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
DoubleParameter	raster_stepsize (description="raster step distance", quantity="arcsec")
Columns	
array dataset	(description="null")
Metadata	
Columns	
DoubleId	(description="null", quantity="none")
	()
array dataset	Dataset similar to the one above with (name="intensity", description="null")
	()
array dataset	Dataset similar to the one above with (name="fwhm", description="fwhm of central beam for each grating position")
	()
array dataset	Dataset similar to the one above with (name="spaxelPosX", description="mean spaxel position in X")
	()
array dataset	Dataset similar to the one above with (name="spaxelPosY", description="mean spaxel position in Y")

4.3.8. PACSCal Product Level - Beam profiles per spaxel

<i>product (type="BeamsPerSpaxelB2A", description="Beam profiles per spaxel")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	calFileId (description="Calfile Type identifier")
StringParameter	productNotes (description="null")
StringParameter	versionNotes (description="null")
StringParameter	band (description="Spectral band")
StringParameter	author (description="The author of the product, i.e. the one that provides its contents, not its format.")

LongParameter	calFileVersion (description="Calfile version")
StringParameter	fileName (description="Filename used for saving FITS file")
DoubleParameter	pixelSize (description="Pixel size", quantity="arcsec")
Columns	
array dataset	(description="Wavelengths for which a beam is available")
Metadata	
Columns	
DoubleId	(description="Wavelengths for which a beam is available", quantity="micrometer")
	()
array dataset	Dataset similar to the one above with (name="beams", description="Beam profiles per wavelength and spaxel")

4.3.9. PACSCal Product Level - Beam profiles per spaxel

<i>product (type="BeamsPerSpaxelB2B", description="Beam profiles per spaxel")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	calFileId (description="Calfile Type identifier")
StringParameter	productNotes (description="null")
StringParameter	versionNotes (description="null")
StringParameter	band (description="Spectral band")
StringParameter	author (description="The author of the product, i.e. the one that provides its contents, not its format.")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	fileName (description="Filename used for saving FITS file")
DoubleParameter	pixelSize (description="Pixel size", quantity="arcsec")
Columns	
array dataset	(description="Wavelengths for which a beam is available")
Metadata	
Columns	

	<i>DoubleId</i>	(description="Wavelengths for which a beam is available", quantity="micrometer")
		()
	<i>array dataset</i>	Dataset similar to the one above with (name="beams", description="Beam profiles per wavelength and spaxel")

4.3.10. PACSCal Product Level - Beam profiles per spaxel

<i>product</i> (type="BeamsPerSpaxelB3A", description="Beam profiles per spaxel")		
<i>Metadata</i>		
StringParameter	type	(description="Product Type Identification")
StringParameter	creator	(description="Generator of this product")
DateParameter	creationDate	(description="Creation date of this product")
StringParameter	description	(description="Name of this product")
StringParameter	instrument	(description="Instrument attached to this product")
StringParameter	modelName	(description="Model name attached to this product")
DateParameter	startDate	(description="Start date of this product")
DateParameter	endDate	(description="End date of this product")
StringParameter	formatVersion	(description="Version of product format")
StringParameter	calFileId	(description="Calfile Type identifier")
StringParameter	productNotes	(description="null")
StringParameter	versionNotes	(description="null")
StringParameter	band	(description="Spectral band")
StringParameter	author	(description="The author of the product, i.e. the one that provides its contents, not its format.")
LongParameter	calFileVersion	(description="Calfile version")
StringParameter	fileName	(description="Filename used for saving FITS file")
DoubleParameter	pixelSize	(description="Pixel size", quantity="arcsec")
<i>Columns</i>		
<i>array dataset</i>		(description="Wavelengths for which a beam is available")
<i>Metadata</i>		
<i>Columns</i>		
<i>DoubleId</i>		(description="Wavelengths for which a beam is available", quantity="micrometer")
		()
<i>array dataset</i>		Dataset similar to the one above with (name="beams", description="Beam profiles per wavelength and spaxel")

4.3.11. PACSCal Product Level - Beam profiles per spaxel

<i>product</i> (type="BeamsPerSpaxelR1", description="Beam profiles per spaxel")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	calFileId (description="Calfile Type identifier")
StringParameter	productNotes (description="null")
StringParameter	versionNotes (description="null")
StringParameter	band (description="Spectral band")
StringParameter	author (description="The author of the product, i.e. the one that provides its contents, not its format.")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	fileName (description="Filename used for saving FITS file")
DoubleParameter	pixelSize (description="Pixel size", quantity="arcsec")
<i>Columns</i>	
<i>array dataset</i>	(description="Wavelengths for which a beam is available")
<i>Metadata</i>	
<i>Columns</i>	
<i>DoubleId</i>	(description="Wavelengths for which a beam is available", quantity="micrometer")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="beams", description="Beam profiles per wavelength and spaxel")

4.3.12. PACSCal Product Level - pointing correction raster for one spectral band

<i>product</i> (type="BeamsR1", description="pointing correction raster for one spectral band")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="null")

DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="null")
StringParameter	calFileId (description="Calfile Type identifier")
StringParameter	productNotes (description="null")
StringParameter	versionNotes (description="null")
StringParameter	band (description="null")
StringParameter	author (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
DoubleParameter	raster_stepsize (description="raster step distance", quantity="arcsec")
<i>Columns</i>	
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Columns</i>	
<i>DoubleId</i>	(description="null", quantity="none")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="intensity", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="fwhm", description="fwhm of central beam for each grating position")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="spaxelPosX", description="mean spaxel position in X")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="spaxelPosY", description="mean spaxel position in Y")

4.3.13. PACSCal Product Level - Calibration file describing the fluxes in Jy at the primary key wavelengths.

<i>product</i> (type="CalSourceFlux", description="Calibration file describing the fluxes in Jy at the primary key wavelengths.")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="Calfile Type identifier")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	author (description="The author of the product, i.e. the one that provides its contents, not its format.")
StringParameter	fileName (description="Filename used for saving FITS file")
StringParameter	productNotes (description="Information about this cal file product")
StringParameter	versionNotes (description="Information about this specific cal file version")
<i>Columns</i>	
<i>table dataset</i>	(name="calsourceflux", description="contains the fluxes in Jy of both calibration sources 1 and 2 at ea")
<i>Metadata</i>	
<i>Columns</i>	
<i>String1d</i>	idstr (description="identification name for the key wavelength", quantity="1")
<i>Double1d</i>	keywave (description="prime key wavelengths", quantity="micrometer")
<i>Double3d</i>	cs1flux (description="flux of CS1 at prime key wavelengths", quantity="Jy")
<i>Double3d</i>	cs2flux (description="flux of CS2 at prime key wavelengths", quantity="Jy")
()	
<i>table dataset</i>	Dataset similar to the one above with (name="calsourceflux_v2", description="null")
()	
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

4.3.14. PACSCal Product Level - Calibration file describing the fluxes (in Jy) of the calibration sources at the primary key wavelengths. Fluxes are based on the central 3x3 spaxels.

<i>product (type="CalSourceFlux3x3", description="Calibration file describing the fluxes (in Jy) of the calibration sources at the primary key wavelengths. Fluxes are based on the central 3x3 spaxels.")</i>			
<i>Metadata</i>			
StringParameter	type (description="Product Type Identification")		
StringParameter	creator (description="Generator of this product")		
DateParameter	creationDate (description="Creation date of this product")		
StringParameter	description (description="Name of this product")		
StringParameter	instrument (description="Instrument attached to this product")		
StringParameter	modelName (description="Model name attached to this product")		
DateParameter	startDate (description="Start date of this product")		
DateParameter	endDate (description="End date of this product")		
StringParameter	formatVersion (description="Calfile Format version")		
StringParameter	calFileId (description="Calfile Type identifier")		
LongParameter	calFileVersion (description="Calfile version")		
StringParameter	author (description="The author of the product, i.e. the one that provides its contents, not its format.")		
StringParameter	fileName (description="Filename used for saving FITS file")		
StringParameter	productNotes (description="Information about this cal file product")		
StringParameter	versionNotes (description="Information about this specific cal file versio")		
<i>Columns</i>			
<i>table dataset (name="calSourceFlux3x3", description="null")</i>			
<i>Metadata</i>			
<i>Columns</i>			
	<i>String1d</i>	kwId (description="null", quantity="none")	
	<i>Double1d</i>	keywave (description="null", quantity="none")	
	<i>Double3d</i>	cs1flux (description="null", quantity="none")	
	<i>Double3d</i>	cs2flux (description="null", quantity="none")	

4.3.15. PACSCal Product Level - contains the capacitance ratios for the red and blue array

<i>product (type="CapacitanceRatios", description="contains the capacitance ratios for the red and blue array")</i>			
<i>Metadata</i>			
StringParameter	type (description="Product Type Identification")		

StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author")
StringParameter	productNotes (description="Information about this cal file product")
StringParameter	versionNotes (description="Version Notes")
<i>Columns</i>	
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double3d</i>	(description="null", quantity="none")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="blue", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="redError", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="blueError", description="null")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

4.3.16. PACSCal Product Level - Defines the CPR (chopper position readouts) versus a verbal description

<i>product (type="ChopperThrowDescription", description="Defines the CPR (chopper position readouts) versus a verbal description")</i>			
<i>Metadata</i>			
StringParameter	type (description="Product Type Identification")		
StringParameter	creator (description="Generator of this product")		
DateParameter	creationDate (description="Creation date of this product")		
StringParameter	description (description="Name of this product")		
StringParameter	instrument (description="Instrument attached to this product")		
StringParameter	modelName (description="Model name attached to this product")		
DateParameter	startDate (description="Start date of this product")		
DateParameter	endDate (description="End date of this product")		
StringParameter	formatVersion (description="Calfile Format version")		
StringParameter	calFileId (description="null")		
StringParameter	fileName (description="null")		
LongParameter	calFileVersion (description="null")		
StringParameter	author (description="Author of the data")		
<i>Columns</i>			
<i>table dataset (name="chopperThrows", description="verbal description of chopper throws")</i>			
<i>Metadata</i>			
<i>Columns</i>			
	<i>StringId</i>	throwNames (description="null", quantity="none")	
	<i>IntId</i>	cprPos (description="null", quantity="none")	
	<i>IntId</i>	tolerance (description="null", quantity="none")	

4.3.17. PACSCal Product Level - Crosstalk matrices for the red and blue spectrometer array.

<i>product (type="CrosstalkMatrix", description="Crosstalk matrices for the red and blue spectrometer array.")</i>			
<i>Metadata</i>			
StringParameter	type (description="Product Type Identification")		
StringParameter	creator (description="Generator of this product")		
DateParameter	creationDate (description="Creation date of this product")		
StringParameter	description (description="Name of this product")		
StringParameter	instrument (description="Instrument attached to this product")		
StringParameter	modelName (description="Model name attached to this product")		
DateParameter	startDate (description="Start date of this product")		
DateParameter	endDate (description="End date of this product")		

StringParameter	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Authors of the data")
Columns	
array dataset	(description="crosstalk matrix for the red array")
Metadata	
Columns	
Double2d	(description="crosstalk matrix for the red array", quantity="none")
	()
array dataset	Dataset similar to the one above with (name="blue", description="crosstalk matrix for the blue array")

4.3.18. PACSCal Product Level - dark current [V/s] for PACS spectrometer blue and red arrays.

<i>product (type="DarkCurrent", description="dark current [V/s] for PACS spectrometer blue and red arrays.")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
Columns	
array dataset	(description="dark current of red array in V/s")
Metadata	
Columns	
Double2d	(description="dark current of red array in V/s", quantity="V s-1")
	()
array dataset	Dataset similar to the one above with (name="blue", description="dark current of blue array in V/s")

									()
	<i>array dataset</i>	Dataset similar to the one above with (name="red_err", description="dark current error of red array in V/s")							
									()
	<i>array dataset</i>	Dataset similar to the one above with (name="blue_err", description="dark current error of blue array in V/s")							

4.3.19. PACSCal Product Level - Detector sorting matrices for the red and blue spectrometer.

<i>product (type="DetectorSortMatrix", description="Detector sorting matrices for the red and blue spectrometer.")</i>									
	<i>Metadata</i>								
	StringParameter	type (description="Product Type Identification")							
	StringParameter	creator (description="Generator of this product")							
	DateParameter	creationDate (description="Date of file creation")							
	StringParameter	description (description="Name of this product")							
	StringParameter	instrument (description="Instrument attached to this product")							
	StringParameter	modelName (description="Model name attached to this product")							
	DateParameter	startDate (description="Start time of this product")							
	DateParameter	endDate (description="End time of this product")							
	StringParameter	formatVersion (description="Calfile format version")							
	StringParameter	calFileId (description="Calfile type identifier")							
	LongParameter	calFileVersion (description="Calfile version")							
	StringParameter	author (description="Author of the data")							
	StringParameter	fileName (description="Calibration product fits file")							
	<i>Columns</i>								
	<i>array dataset</i>	<i>(description="Red Spectrometer conversion matrix for decompression")</i>							
	<i>Metadata</i>								
	<i>Columns</i>								
	<i>Int2d</i>	(description="Red Spectrometer conversion matrix for decompression", quantity="none")							
		()							
	<i>array dataset</i>	Dataset similar to the one above with (name="blue", description="Blue Spectrometer conversion matrix for decompression")							

4.3.20. PACSCal Product Level - number of discarded readouts at the ramp start to account for the hook response

<i>product (type="DiscardRampHooks", description="number of discarded readouts at the ramp start to account for the hook response")</i>			
<i>Metadata</i>			
StringParameter	type	(description="Product Type Identification")	
StringParameter	creator	(description="Generator of this product")	
DateParameter	creationDate	(description="Creation date of this product")	
StringParameter	description	(description="Name of this product")	
StringParameter	instrument	(description="Instrument attached to this product")	
StringParameter	modelName	(description="Model name attached to this product")	
DateParameter	startDate	(description="Start date of this product")	
DateParameter	endDate	(description="End date of this product")	
StringParameter	formatVersion	(description="Calfile Format version")	
StringParameter	calFileId	(description="null")	
StringParameter	fileName	(description="null")	
LongParameter	calFileVersion	(description="null")	
StringParameter	author	(description="Author of the data")	
<i>Columns</i>			
<i>array dataset</i>		(description="number of full resolution red ramp readouts affected by the initial")	
<i>Metadata</i>			
<i>Columns</i>			
	<i>IntId</i>	(description="number of full resolution red ramp readouts affected by the initial", quantity="none")	

4.3.21. PACSCal Product Level - Effective measured capacitances of the four possible commandable capacitances of the spectrometer

<i>product (type="EffectiveCapacitance", description="Effective measured capacitances of the four possible commandable capacitances of the spectrometer")</i>			
<i>Metadata</i>			
StringParameter	type	(description="Product Type Identification")	
StringParameter	creator	(description="Generator of this product")	
DateParameter	creationDate	(description="Date of file creation")	
StringParameter	description	(description="Name of this product")	
StringParameter	instrument	(description="Instrument attached to this product")	
StringParameter	modelName	(description="Model name attached to this product")	
DateParameter	startDate	(description="Start date of this product")	

DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Calfile format version")
StringParameter	calFileId (description="Calfile type identifier")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="null")
Columns	
array dataset	(description="effective measured capacitances in pF")
Metadata	
Columns	
DoubleId	(description="effective measured capacitances in pF", quantity="none")

4.3.22. PACSCal Product Level - Fraction of the signal of an extended source seen in a single spatial pixel

<i>product (type="ExtendedSourceLoss", description="Fraction of the signal of an extended source seen in a single spatial pixel")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
Columns	
array dataset	(description="wavelength range from 50 to 220 microns, step: 1 micron")
Metadata	
Columns	
DoubleId	(description="wavelength range from 50 to 220 microns, step: 1 micron", quantity="none")
	()
array dataset	Dataset similar to the one above with (name="fraction", description="flux fraction factor dependent on wavelength")

4.3.23. PACSCal Product Level - Defines the wheel position (wpr) readout to band conversion

<i>product (type="FilterBandConversion", description="Defines the wheel position (wpr) readout to band conversion")</i>			
<i>Metadata</i>			
StringParameter	type	(description="Product Type Identification")	
StringParameter	creator	(description="Generator of this product")	
DateParameter	creationDate	(description="Creation date of this product")	
StringParameter	description	(description="Name of this product")	
StringParameter	instrument	(description="Instrument attached to this product")	
StringParameter	modelName	(description="Model name attached to this product")	
DateParameter	startDate	(description="Start date of this product")	
DateParameter	endDate	(description="End date of this product")	
StringParameter	formatVersion	(description="Calfile Format version")	
StringParameter	calFileId	(description="null")	
StringParameter	fileName	(description="null")	
LongParameter	calFileVersion	(description="null")	
StringParameter	author	(description="Author of the data")	
<i>Columns</i>			
table dataset	<i>(name="filterBand", description="association of filter wheel position to spectral bands")</i>		
<i>Metadata</i>			
<i>Columns</i>			
	<i>IntId</i>	wpr	(description="null", quantity="none")
	<i>StringId</i>	band	(description="null", quantity="none")
	<i>StringId</i>	camera	(description="null", quantity="none")
	<i>StringId</i>	description	(description="null", quantity="none")

4.3.24. PACSCal Product Level - Defines the GPR (DM_GRAT_CUR_POS) versus Hall sensor readback calibration object

<i>product (type="GprHall", description="Defines the GPR (DM_GRAT_CUR_POS) versus Hall sensor readback calibration object")</i>			
<i>Meta-data</i>			
StringParameter	type	(description="Product Type Identification")	
StringParameter	creator	(description="Generator of this product")	
DateParameter	creationDate	(description="Date of file creation")	

StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Calfile format version")
StringParameter	calFileId (description="null")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
Columns	
array dataset	(description="Grating position readback")
Metadata	
Columns	
DoubleId	(description="Grating position readback", quantity="none")
	()
array dataset	Dataset similar to the one above with (name="HALL_A", description="HALL A sensor")
	()
array dataset	Dataset similar to the one above with (name="HALL_B", description="HALL B sensor")
	()
table dataset	Dataset similar to the one above with (name="Part_0_A", description="Sorted, Unique, Partitionned 0_A")
	()
table dataset	Dataset similar to the one above with (name="Part_1_A", description="Sorted, Unique, Partitionned 1_A")
	()
table dataset	Dataset similar to the one above with (name="Part_2_A", description="Sorted, Unique, Partitionned 2_A")
	()
table dataset	Dataset similar to the one above with (name="Part_3_A", description="Sorted, Unique, Partitionned 3_A")
	()
table dataset	Dataset similar to the one above with (name="Part_0_B", description="Sorted, Unique, Partitionned 0_B")

	()
<i>table dataset</i>	Dataset similar to the one above with (name="Part_1_B", description="Sorted, Unique, Partitionned 1_B")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="Part_2_B", description="Sorted, Unique, Partitionned 2_B")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="Part_3_B", description="Sorted, Unique, Partitionned 3_B")

4.3.25. PACSCal Product Level - Defines the redundant GPR (DM_GRAT_CUR_POS) versus Hall sensor read-back calibration object

<i>product</i> (type="GprHallRedundant", description="Defines the redundant GPR (DM_GRAT_CUR_POS) versus Hall sensor readback calibration object")	
<i>Meta-data</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Date of file creation")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Calfile format version")
StringParameter	calFileId (description="null")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
<i>Columns</i>	

<i>array dataset</i>	(description="Grating position readback")
<i>Metadata</i>	
<i>Columns</i>	
<i>DoubleId</i>	(description="Grating position readback", quantity="none")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="HALL_A", description="HALL A sensor")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="HALL_B", description="HALL B sensor")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="Part_0_A", description="Sorted, Unique, Partitionned 0_A")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="Part_1_A", description="Sorted, Unique, Partitionned 1_A")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="Part_2_A", description="Sorted, Unique, Partitionned 2_A")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="Part_3_A", description="Sorted, Unique, Partitionned 3_A")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="Part_0_B", description="Sorted, Unique, Partitionned 0_B")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="Part_1_B", description="Sorted, Unique, Partitionned 1_B")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="Part_2_B", description="Sorted, Unique, Partitionned 2_B")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="Part_3_B", description="Sorted, Unique, Partitionned 3_B")

4.3.26. PACSCal Product Level - value for the jitter threshold of the final grating positions in readout units

<i>product (type="GratingJitterThreshold", description="value for the jitter threshold of the final grating positions in readout units")</i>	
<i>Metadata</i>	
<i>StringParameter</i>	type (description="Product Type Identification")
<i>StringParameter</i>	creator (description="Generator of this product")
<i>DateParameter</i>	creationDate (description="Creation date of this product")

StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
Columns	
array dataset	(description="accuracy of final grating position in readouts")
Metadata	
Columns	
DoubleId	(description="accuracy of final grating position in readouts", quantity="none")

4.3.27. PACSCal Product Level - defines the primary and secondary key wavelengths

<i>product (type="KeyWavelengths", description="defines the primary and secondary key wavelengths")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
Columns	
table dataset	(name="keywavelengths", description="definitions of primary and secondary key wavelengths")
Metadata	
Columns	

<i>IntId</i>	id (description="key wavelength counter", quantity="1")
<i>StringId</i>	band (description="band name for the key wavelength", quantity="1")
<i>DoubleId</i>	keywave (description="key wavelengths", quantity="micrometer")
<i>StringId</i>	idstr (description="identification name for the key wavelength", quantity="1")
<i>DoubleId</i>	gratpos (description="grating position of the key wavelength", quantity="1")
<i>StringId</i>	primesec (description="indicates if primary or secondary key wavelength", quantity="1")
<i>DoubleId</i>	beginLambda (description="Begin of wavelength interval", quantity="micrometer")
<i>DoubleId</i>	endLambda (description="End of wavelength interval", quantity="micrometer")

4.3.28. PACSCal Product Level - defines the bit coded labels vs. a verbal description

<i>product</i> (type="LabelDescription", description="defines the bit coded labels vs. a verbal description")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
<i>Columns</i>	
<i>array dataset</i>	(description="Label descriptions for Spectrometer")
<i>Metadata</i>	
<i>Columns</i>	
<i>StringId</i>	(description="Label descriptions for Spectrometer", quantity="none")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="LabelBits", description="Label bit setting for Spectrometer")

4.3.29. PACSCal Product Level - Littrow parameters for wavelength calibration

<i>product</i> (type="LittrowParameters", description="Littrow parameters for wavelength calibration")	
<i>Meta-data</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Date of file creation")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start time of this product")
DateParameter	endDate (description="End time of this product")
StringParameter	formatVersion (description="Calfile format version")
StringParameter	calFileId (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="null")
<i>Columns</i>	
<i>array dataset</i>	(description="Grating Constant")
<i>Metadata</i>	
<i>Columns</i>	
<i>DoubleId</i>	(description="Grating Constant", quantity="none")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="gratStepPerDeg", description="Grating readout steps per degree")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="deltaAlpha", description="Angular deviation from ideal Littrow case (input angle)")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="deltaBeta", description="Angular deviation from ideal Littrow case (output angle)")

	()
<i>array dataset</i>	Dataset similar to the one above with (name="deltaPixRed", description="Correction of output angle per pixel unit offset to central pixel")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="deltaPixBlue", description="Correction of output angle per pixel unit offset to central pixel")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="alphaNotRed", description="Grating angle at grating zero position")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="alphaNotBlue", description="Grating angle at grating zero position")

4.3.30. PACSCal Product Level - Grating wavelength calibration: Littrow equation parameters / polynome approximation for alpha per pixel

<i>product (type="LittrowPolynomes", description="Grating wavelength calibration: Littrow equation parameters / polynome approximation for alpha per pixel")</i>	
<i>Meta-data</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="Filename used for saving FITS file")
StringParameter	productNotes (description="null")
StringParameter	versionNotes (description="null")

LongParameter	calFileVersion (description="Calfile version")
StringParameter	author (description="null")
StringParameter	fileName (description="null")
Columns	
composite	(description="null")
Metadata	
Columns	
array dataset	(description="null")
Metadata	
Columns	
Double1d	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
Columns	
Double1d	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
Columns	
Double1d	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
Columns	
Double1d	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
Columns	
Double1d	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
Columns	

<i>Double2d</i>	(description="null", quantity="none")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double2d</i>	(description="null", quantity="none")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double2d</i>	(description="null", quantity="none")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="B2A", description="null")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="B2B", description="null")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="R1", description="null")

4.3.31. PACSCal Product Level - Module to Array coordinate conversion calibration object

<i>product</i> (type="ModuleArray", description="Module to Array coordinate conversion calibration object")	
<i>Meta-data</i>	
String-Parameter	type (description="Product Type Identification")
String-Parameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
String-Parameter	description (description="Name of this product")
String-Parameter	instrument (description="Instrument attached to this product")
String-Parameter	modelName (description="Model name attached to this product")

DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
String-Parameter	formatVersion (description="Calfile Format version")
String-Parameter	calFileId (description="null")
String-Parameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
String-Parameter	author (description="Author of the data")

Columns	
array	(description="y-stage (y-sky) coordinate of the blue module w.r.t module 12 as reference in arcseconds for small chopper deflections")
Metadata	
Columns	
DoubleId	(description="y-stage (y-sky) coordinate of the blue module w.r.t module 12 as reference in arcseconds for small chopper deflections", quantity="none")
	()
array dataset	Dataset similar to the one above with (name="ubluesmall", description="x-stage (-z-sky) coordinate of the blue module w.r.t module 12 as reference in arcseconds for small chopper deflections")
	()
array dataset	Dataset similar to the one above with (name="vredsmall", description="y-stage (y-sky) coordinate of the red module w.r.t module 12 as reference in arcseconds for small chopper deflections")
	()
array dataset	Dataset similar to the one above with (name="uredsmall", description="x-stage (-z-sky) coordinate of the red module w.r.t module 12 as reference in arcseconds for small chopper deflections")
	()
array dataset	Dataset similar to the one above with (name="vbluemedium", description="y-stage (y-sky) coordinate of the blue module w.r.t module 12 as reference in arcseconds for medium chopper deflections")
	()
array dataset	Dataset similar to the one above with (name="ubluedmedium", description="x-stage (-z-sky) coordinate of the blue module w.r.t module 12 as reference in arcseconds for medium chopper deflections")
	()

<i>array dataset</i>	Dataset similar to the one above with (name="vredmedium", description="y-stage (y-sky) coordinate of the red module w.r.t module 12 as reference in arcseconds for medium chopper deflections")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="uredmedium", description="x-stage (-z-sky) coordinate of the red module w.r.t module 12 as reference in arcseconds for medium chopper deflections")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="vbluelarge", description="y-stage (y-sky) coordinate of the blue module w.r.t module 12 as reference in arcseconds for large chopper deflections")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="ubluelarge", description="x-stage (-z-sky) coordinate of the blue module w.r.t module 12 as reference in arcseconds for large chopper deflections")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="vredlarge", description="y-stage (y-sky) coordinate of the red module w.r.t module 12 as reference in arcseconds for large chopper deflections")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="uredlarge", description="x-stage (-z-sky) coordinate of the red module w.r.t module 12 as reference in arcseconds for large chopper deflections")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="vblue", description="y-stage (y-sky) coordinate of the blue module w.r.t module 12 as reference in arcseconds")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="ubblue", description="x-stage (-z-sky) coordinate of the blue module w.r.t module 12 as reference in arcseconds")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="vred", description="y-stage (y-sky) coordinate of the red module w.r.t module 12 as reference in arcseconds")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="ured", description="x-stage (-z-sky) coordinate of the red module w.r.t module 12 as reference in arcseconds")

4.3.32. PACSCal Product Level - Noisy pixels mask for PACS spectrometer.

<i>product (type="NoisyPixelMask", description="Noisy pixels mask for PACS spectrometer.")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")

StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
Columns	
array dataset	(description="Noisy pixels of red array stored in a Bool2d(18, 25)")
Metadata	
Columns	
Bool2d	(description="Noisy pixels of red array stored in a Bool2d(18, 25)", quantity="none")
	()
array dataset	Dataset similar to the one above with (name="blue", description="Noisy pixels of blue array stored in a Bool2d(18, 25)")

4.3.33. PACSCal Product Level - contains the nominal responses in V/s/Jy per prime key wavelength

<i>product (type="NominalResponse", description="contains the nominal responses in V/s/Jy per prime key wavelength")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="null")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
StringParameter	productNotes (description="null")
StringParameter	versionNotes (description="null")
Columns	
table dataset	(name="nominalResponse", description="contains the nominal responses in V/s/Jy for each band")

<i>Metadata</i>			
<i>Columns</i>			
	<i>Double2d</i>	b2a (description="response of band B2A", quantity="V s-1 Jy-1")	
	<i>Double2d</i>	b2b (description="response of band B2B", quantity="V s-1 Jy-1")	
	<i>Double2d</i>	b3a (description="response of band B3A", quantity="V s-1 Jy-1")	
	<i>Double2d</i>	r1 (description="response of band R1", quantity="V s-1 Jy-1")	

4.3.34. PACSCal Product Level - contains coefficients of a second order polynomial to linearize signals for the red and blue array stored in a Double3d(18, 25, 3)

<i>product (type="NonLinearity", description="contains coefficients of a second order polynomial to linearize signals for the red and blue array stored in a Double3d(18, 25, 3)")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
<i>Columns</i>	
<i>array dataset</i>	<i>(description="Linearisation coefficients of ramp slopes (V/s) (64 samples) for red array stored in a Double3d(18, 25, 3)")</i>
<i>Metadata</i>	

<i>Columns</i>	
<i>Double3d</i>	(description="Linearisation coefficients of ramp slopes (V/s) (64 samples) for red array stored in a Double3d(18, 25, 3)", quantity="none")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="redError", description="error of signal (V/s) (64 samples) of each pixel in the red array stored in a Double2d(18, 25)")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="red32", description="Linearisation coefficients of ramp slopes (V/s) (32 samples) for red array stored in a Double3d(18, 25, 3)")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="red32Error", description="error of signal (V/s, 32 samples) of each pixel in the red array stored in a Double2d(18, 25)")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="blue", description="Linearisation coefficients of ramp slopes (V/s) (64 samples) for blue array stored in a Double3d(18, 25, 3)")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="blueError", description="error of signal (V/s) (64 samples) of each pixel in the blue array stored in a Double2d(18, 25)")

4.3.35. PACSCal Product Level - Calibration product containing responses computed from observations of astronomical standards

<i>product (type="ObservedResponse", description="Calibration product containing responses computed from observations of astronomical standards")</i>	
<i>Meta-data</i>	
StringParameter	type (description="null")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")

DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	calFileId (description="null")
StringParameter	author (description="The author of the product, i.e. the one that provides its contents, not its format.")
StringParameter	productNotes (description="Information about this cal file product")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	versionNotes (description="Information about this specific cal file version")
StringParameter	fileName (description="Filename used for saving FITS file")
Columns	
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="V s-1 Jy-1")
	()
array dataset	Dataset similar to the one above with (name="B3A_60", description="null")
	()
array dataset	Dataset similar to the one above with (name="B2B_75", description="null")
	()
array dataset	Dataset similar to the one above with (name="R1_120", description="null")
	()
array dataset	Dataset similar to the one above with (name="R1_150", description="null")
	()
array dataset	Dataset similar to the one above with (name="R1_180", description="null")

4.3.36. PACSCal Product Level - Calibration product containing responses computed from observations of astronomical standards

<i>product (type="ObservedResponse3x3", description="Calibration product containing responses computed from observations of astronomical standards")</i>	
Metadata	
StringParameter	type (description="null")
StringParameter	creator (description="Generator of this product")

DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	calFileId (description="null")
StringParameter	author (description="The author of the product, i.e. the one that provides its contents, not its format.")
StringParameter	productNotes (description="Information about this cal file product")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	versionNotes (description="Information about this specific cal file versio")
StringParameter	fileName (description="Filename used for saving FITS file")
Columns	
array dataset	(description="null")
Metadata	
Columns	
Double2d	(description="null", quantity="V s-1 Jy-1")
	()
array dataset	Dataset similar to the one above with (name="B3A_60", description="null")
	()
array dataset	Dataset similar to the one above with (name="B2B_75", description="null")
	()
array dataset	Dataset similar to the one above with (name="R1_120", description="null")
	()
array dataset	Dataset similar to the one above with (name="R1_150", description="null")
	()
array dataset	Dataset similar to the one above with (name="R1_180", description="null")

4.3.37. PACSCal Product Level - Fraction of the signal of a point source seen in a single spatial pixel, in the central 3x3 and in the 5x5 spatial pixels

<i>product</i> (type="PointSourceLoss", description="Fraction of the signal of a point source seen in a single spatial pixel, in the central 3x3 and in the 5x5 spatial pixels")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="Calfile Type identifier")
StringParameter	author (description="The author of the product, i.e. the one that provides its contents, not its format.")
StringParameter	fileName (description="Filename used for saving FITS file")
LongParameter	calFileVersion (description="Calfile version")
<i>Columns</i>	
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double Id</i>	(description="null", quantity="none")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="fraction", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="fractionCentral_to_3x3", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="fraction3x3_to_total", description="null")
	()

<i>array dataset</i>	Dataset similar to the one above with (name="fraction5x5_to_total", description="null")

4.3.38. PACSCal Product Level - Point spread functions for the red and blue spectrometer.

<i>product (type="Psf", description="Point spread functions for the red and blue spectrometer.")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
<i>Columns</i>	
<i>array dataset</i>	(description="3D dataset with x,y 27X27 red PSF points, z are the spectrally aver")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double3d</i>	(description="3D dataset with x,y 27X27 red PSF points, z are the spectrally aver", quantity="none")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="blueavg", description="3D dataset with x,y 27X27 blue PSF points, z are the spectrally ave")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="red", description="4D dataset with x,y 27X27 red PSF points, z are the 25 modules, 4th")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="blue", description="4D dataset with x,y 27X27 blue PSF points, z are the 25 modules, 4t")

4.3.39. PACSCal Product Level - contains the ramp saturation limits (digits) for the red and blue array

<i>product (type="RampSatLimits", description="contains the ramp saturation limits (digits) for the red and blue array")</i>

<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
<i>Columns</i>	
<i>array dataset</i>	(description="saturation limits of the red array in digits depend on the capac")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double3d</i>	(description="saturation limits of the red array in digits depend on the capac", quantity="none")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="limitsBlue", description="saturation limits of the blue array in digits depend on the capa")

4.3.40. PACSCal Product Level - Defines the ramp readout to volt conversion

<i>product (type="Readouts2Volts", description="Defines the ramp readout to volt conversion")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Date of file creation")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")

DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Calfile format version")
StringParameter	calFileId (description="null")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="null")
Columns	
array dataset	(description="Start value Digits")
Metadata	
Columns	
DoubleId	(description="Start value Digits", quantity="none")
	()
array dataset	Dataset similar to the one above with (name="DigitEndRed", description="End value Digits")
	()
array dataset	Dataset similar to the one above with (name="VoltStartRed", description="Start value Voltage")
	()
array dataset	Dataset similar to the one above with (name="VoltEndRed", description="End value Voltage")
	()
array dataset	Dataset similar to the one above with (name="DigitStartBlue", description="Start value Digits")
	()
array dataset	Dataset similar to the one above with (name="DigitEndBlue", description="End value Digits")
	()
array dataset	Dataset similar to the one above with (name="VoltStartBlue", description="Start value Voltage")
	()
array dataset	Dataset similar to the one above with (name="VoltEndBlue", description="End value Voltage")

4.3.41. PACSCal Product Level - contains the flux ratios of both calibration sources at key wavelengths to prime key wavelengths

<i>product (type="RelCalSourceFlux", description="contains the flux ratios of both calibration sources at key wavelengths to prime key wavelengths")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="null")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
StringParameter	versionNotes (description="null")
<i>Columns</i>	
<i>table dataset</i>	<i>(name="relcalsourceflux", description="contains the flux ratios of both CS at each key wavelength to prime")</i>
<i>Metadata</i>	
<i>Columns</i>	
<i>String1d</i>	idstr (description="identification name for the key wavelength", quantity="1")
<i>Double1d</i>	keywave (description="secondary key wavelengths", quantity="micrometer")
<i>Double1d</i>	primekeywave (description="prime key wavelengths", quantity="micrometer")
<i>Double3d</i>	cs1fluxratio (description="flux ratios of CS1", quantity="1")
<i>Double3d</i>	cs2fluxratio (description="flux ratios of CS2s", quantity="1")
<i>String1d</i>	primeidstr (description="null", quantity="none")

4.3.42. PACSCal Product Level - Relative spectral Response Function for one spectral band

<i>product (type="RsrFB2A", description="Relative spectral Response Function for one spectral band")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")

StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="null")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="null")
StringParameter	calFileId (description="null")
StringParameter	productNotes (description="Product notes")
StringParameter	versionNotes (description="Version notes")
StringParameter	band (description="null")
StringParameter	author (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="Calfile version")
<i>Columns</i>	
<i>array dataset</i>	(description="Grating Position")
<i>Metadata</i>	
<i>Columns</i>	
<i>DoubleId</i>	(description="Grating Position", quantity="1")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="response", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="error", description="Statistical error on the Relative Response")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

4.3.43. PACSCal Product Level - Relative spectral Response Function for one spectral band

<i>product (type="RsrFB2B", description="Relative spectral Response Function for one spectral band")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="null")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")

DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="null")
StringParameter	calFileId (description="null")
StringParameter	productNotes (description="Product notes")
StringParameter	versionNotes (description="Version notes")
StringParameter	band (description="null")
StringParameter	author (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="Calfile version")
<i>Columns</i>	
<i>array dataset</i>	(description="Grating Position")
<i>Metadata</i>	
<i>Columns</i>	
<i>DoubleId</i>	(description="Grating Position", quantity="1")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="response", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="error", description="Statistical error on the Relative Response")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

4.3.44. PACSCal Product Level - Relative spectral Response Function for one spectral band

<i>product (type="RsrFB3A", description="Relative spectral Response Function for one spectral band")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="null")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="null")
StringParameter	calFileId (description="null")
StringParameter	productNotes (description="Product notes")

StringParameter	versionNotes (description="Version notes")
StringParameter	band (description="null")
StringParameter	author (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="Calfile version")
Columns	
array dataset	(description="Grating Position")
Metadata	
Columns	
DoubleId	(description="Grating Position", quantity="1")
	()
array dataset	Dataset similar to the one above with (name="response", description="null")
	()
array dataset	Dataset similar to the one above with (name="error", description="Statistical error on the Relative Response")
	()
composite dataset	Dataset similar to the one above with (name="History", description="History of product")

4.3.45. PACSCal Product Level - Relative spectral Response Function for one spectral band

<i>product (type="Rsrfr1", description="Relative spectral Response Function for one spectral band")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="null")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="null")
StringParameter	calFileId (description="null")
StringParameter	productNotes (description="null")
StringParameter	versionNotes (description="null")
StringParameter	band (description="null")
StringParameter	author (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="Calfile version")
Columns	

<i>array dataset</i>	(description="Grating Position")
<i>Metadata</i>	
<i>Columns</i>	
<i>DoubleId</i>	(description="Grating Position", quantity="1")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="response", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="error", description="Statistical error on the Relative Response")

4.3.46. PACSCal Product Level - contains the line and continuum RMS noise fluctuations for 1 sec integration time

<i>product (type="Sensitivity", description="contains the line and continuum RMS noise fluctuations for 1 sec integration time")</i>	
<i>Meta-data</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")

<i>Columns</i>	
<i>array dataset</i>	(description="wavelengths for order 1")
<i>Metadata</i>	
<i>Columns</i>	
<i>DoubleId</i>	(description="wavelengths for order 1", quantity="micrometer")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="microns_2", description="wavelengths for order 2")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="microns_23", description="wavelengths for extreme order 2")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="microns_3", description="wavelengths for order 3")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="noise_cont_1", description="continuum rms noise unit jy for order 1")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="noise_cont_2", description="continuum rms noise unit jy for order 2")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="noise_cont_23", description="continuum rms noise unit jy for order 23")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="noise_cont_3", description="continuum rms noise unit jy for order 3")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="noise_line_1", description="line rms noise unit W/m^2 for order 1")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="noise_line_2", description="line rms noise unit W/m^2 for order 2")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="noise_line_23", description="line rms noise unit W/m^2 for order 23")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="noise_line_3", description="line rms noise unit W/m^2 for order 3")

4.3.47. PACSCal Product Level - contains the signal saturation limits (digits/second) for the red and blue array scaled for 1 second reset interval

<i>product (type="SignalSatLimits", description="contains the signal saturation limits (digits/second) for the red and blue array scaled for 1 second reset interval")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
<i>Columns</i>	
<i>array dataset</i>	(description="dynamic range of red array for 1 sec reset interval, sat limit for ")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double3d</i>	(description="dynamic range of red array for 1 sec reset interval, sat limit for ", quantity="s-1")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="blue", description="dynamic range of blue array for 1 sec reset interval, sat limit for")

4.3.48. PACSCal Product Level - spectrometer constants to calculate spectral resolution vs. wavelength

<i>product (type="SpecProperties", description="spectrometer constants to calculate spectral resolution vs. wavelength")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")

StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
Columns	
array dataset	(description="grating constant in grooves per mm")
Metadata	
Columns	
DoubleId	(description="grating constant in grooves per mm", quantity="mm-1")
	()
array dataset	Dataset similar to the one above with (name="beamDiameter", description="beam diameter in mm")
	()
array dataset	Dataset similar to the one above with (name="scale", description="scale")
	()
array dataset	Dataset similar to the one above with (name="lightSpeed", description="speed of light in km/s")

4.3.49. PACSCal Product Level - wavelength, position and time dependent correction factors for the telescope background for each band

<i>product (type="TelBackCorB2A", description="wavelength, position and time dependent correction factors for the telescope background for each band")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="null")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="null")
StringParameter	calFileId (description="Calfile Type identifier")
StringParameter	productNotes (description="null")
StringParameter	versionNotes (description="null")

StringParameter	band (description="null")
StringParameter	author (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
Columns	
array dataset	(description="null")
Metadata	
Columns	
DoubleId	(description="null", quantity="none")
	()
array dataset	Dataset similar to the one above with (name="rsrfCorrection", description="null")
	()
array dataset	Dataset similar to the one above with (name="coeffSlope", description="null")
	()
array dataset	Dataset similar to the one above with (name="coeffZeroPoint", description="null")

4.3.50. PACSCal Product Level - wavelength, position and time dependent correction factors for the telescope background for each band

<i>product (type="TelBackCorB2B", description="wavelength, position and time dependent correction factors for the telescope background for each band")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="null")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="null")
StringParameter	calFileId (description="Calfile Type identifier")
StringParameter	productNotes (description="null")
StringParameter	versionNotes (description="null")
StringParameter	band (description="null")
StringParameter	author (description="null")
StringParameter	fileName (description="null")

LongParameter	calFileVersion (description="null")		
Columns			
array dataset	(description="null")		
Metadata			
Columns			
DoubleId	(description="null", quantity="none")		
	()		
array dataset	Dataset similar to the one above with (name="rsrfCorrection", description="null")		
	()		
array dataset	Dataset similar to the one above with (name="coeffSlope", description="null")		
	()		
array dataset	Dataset similar to the one above with (name="coeffZeroPoint", description="null")		

4.3.51. PACSCal Product Level - wavelength, position and time dependent correction factors for the telescope background for each band

<i>product (type="TelBackCorB3A", description="wavelength, position and time dependent correction factors for the telescope background for each band")</i>			
Metadata			
StringParameter	type (description="Product Type Identification")		
StringParameter	creator (description="null")		
DateParameter	creationDate (description="Creation date of this product")		
StringParameter	description (description="Name of this product")		
StringParameter	instrument (description="Instrument attached to this product")		
StringParameter	modelName (description="Model name attached to this product")		
DateParameter	startDate (description="Start date of this product")		
DateParameter	endDate (description="End date of this product")		
StringParameter	formatVersion (description="Version of product format")		
StringParameter	calFileId (description="CalFile type identifier")		
StringParameter	productNotes (description="null")		
StringParameter	versionNotes (description="null")		
StringParameter	band (description="null")		
StringParameter	fileName (description="null")		
LongParameter	calFileVersion (description="null")		
StringParameter	author (description="null")		
Columns			
array dataset	(description="null")		

<i>Metadata</i>	
<i>Columns</i>	
<i>DoubleId</i>	(description="null", quantity="none")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="rsrfCorrection", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="coeffSlope", description="null")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="coeffZeroPoint", description="null")

4.3.52. PACSCal Product Level - wavelength, position and time dependent correction factors for the telescope background for each band

<i>product (type="TelBackCorR1", description="wavelength, position and time dependent correction factors for the telescope background for each band")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="null")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="null")
StringParameter	calFileId (description="Calfile Type identifier")
StringParameter	productNotes (description="null")
StringParameter	versionNotes (description="null")
StringParameter	band (description="null")
StringParameter	author (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
<i>Columns</i>	
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Columns</i>	
<i>DoubleId</i>	(description="null", quantity="none")

									()
								<i>array dataset</i>	Dataset similar to the one above with (name="rsrfCorrection", description="null")
									()
								<i>array dataset</i>	Dataset similar to the one above with (name="coeffSlope", description="null")
									()
								<i>array dataset</i>	Dataset similar to the one above with (name="coeffZeroPoint", description="null")

4.3.53. PACSCal Product Level - SED of the telescope background

<i>product (type="TelescopeBackground", description="SED of the telescope background")</i>									
<i>Metadata</i>									
								<i>StringParameter</i>	type (description="Product Type Identification")
								<i>StringParameter</i>	creator (description="null")
								<i>DateParameter</i>	creationDate (description="Creation date of this product")
								<i>StringParameter</i>	description (description="Name of this product")
								<i>StringParameter</i>	instrument (description="null")
								<i>StringParameter</i>	modelName (description="null")
								<i>DateParameter</i>	startDate (description="Start date of this product")
								<i>DateParameter</i>	endDate (description="End date of this product")
								<i>StringParameter</i>	formatVersion (description="null")
								<i>StringParameter</i>	calFileId (description="Calfile Type identifier")
								<i>StringParameter</i>	fileName (description="null")
								<i>LongParameter</i>	calFileVersion (description="null")
								<i>StringParameter</i>	author (description="Author of the data")
								<i>StringParameter</i>	versionNotes (description="Information about this specific cal file version")
<i>Columns</i>									
								<i>array dataset</i>	(description="flux per od in Jy")
<i>Metadata</i>									
<i>Columns</i>									
								<i>Double2d</i>	(description="flux per od in Jy", quantity="none")
									()
								<i>array dataset</i>	Dataset similar to the one above with (name="microns", description="wavelengths in microns")

4.3.54. PACSCal Product Level - Grating wavelength calibration: grating step parameters / polynome coefficients

<i>product</i> (type="WavePolynomes", description="Grating wavelength calibration: grating step parameters / polynome coefficients")	
<i>Metada- ta</i>	
StringPa- rameter	type (description="Product Type Identification")
StringPa- rameter	creator (description="null")
DateParam- eter	creationDate (description="Creation date of this product")
StringPa- rameter	description (description="Name of this product")
StringPa- rameter	instrument (description="Instrument attached to this product")
StringPa- rameter	modelName (description="Model name attached to this product")
DateParam- eter	startDate (description="Start date of this product")
DateParam- eter	endDate (description="End date of this product")
StringPa- rameter	formatVersion (description="Version of product format")
StringPa- rameter	calFileId (description="Calfile Type identifier")
StringPa- rameter	productNotes (description="null")
StringPa- rameter	versionNotes (description="null")
StringPa- rameter	author (description="null")
StringPa- rameter	fileName (description="null")
LongParam- eter	calFileVersion (description="null")
<i>Columns</i>	
<i>compos- ite</i>	(description="null")
<i>Metadata</i>	
<i>Columns</i>	
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Columns</i>	

<i>Double1d</i>	(description="null", quantity="none")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double3d</i>	(description="null", quantity="none")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="B2A", description="null")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="B2B", description="null")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="R1", description="null")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

4.3.55. PACSCal Product Level - PACS spectrometer wavelength grid for the three grating orders and for different upsamples

<i>product (type="WavelengthGrid", description="PACS spectrometer wavelength grid for the three grating orders and for different upsamples")</i>	
<i>Meta-data</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="null")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="Calfile Type identifier")

StringParameter	author (description="The author of the product, i.e. the one that provides its contents, not its format.")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	fileName (description="Filename used for saving FITS file")
Columns	
table dataset	(name="order1_upsample1", description="Wavelengths and resolving power for grating order 1 and upsample 1")
Metadata	
Columns	
DoubleId	wavelength (description="wavelengths for upsample 1", quantity="micrometer")
DoubleId	resolvingPower (description="resolving powers for upsample 1", quantity="none")
	()
table dataset	Dataset similar to the one above with (name="order1_upsample2", description="Wavelengths and resolving power for grating order 1 and upsample 2")
	()
table dataset	Dataset similar to the one above with (name="order1_upsample3", description="Wavelengths and resolving power for grating order 1 and upsample 3")
	()
table dataset	Dataset similar to the one above with (name="order1_upsample4", description="Wavelengths and resolving power for grating order 1 and upsample 4")
	()
table dataset	Dataset similar to the one above with (name="order1_upsample5", description="Wavelengths and resolving power for grating order 1 and upsample 5")
	()
table dataset	Dataset similar to the one above with (name="order2_upsample1", description="Wavelengths and resolving power for grating order 2 and upsample 1")
	()
table dataset	Dataset similar to the one above with (name="order2_upsample2", description="Wavelengths and resolving power for grating order 2 and upsample 2")
	()
table dataset	Dataset similar to the one above with (name="order2_upsample3", description="Wavelengths and resolving power for grating order 2 and upsample 3")
	()
table dataset	Dataset similar to the one above with (name="order2_upsample4", description="Wavelengths and resolving power for grating order 2 and upsample 4")
	()
table dataset	Dataset similar to the one above with (name="order2_upsample5", description="Wavelengths and resolving power for grating order 2 and upsample 5")
	()
table dataset	Dataset similar to the one above with (name="order3_upsample1", description="Wavelengths and resolving power for grating order 3 and upsample 1")
	()
table dataset	Dataset similar to the one above with (name="order3_upsample2", description="Wavelengths and resolving power for grating order 3 and upsample 2")

	()
<i>table dataset</i>	Dataset similar to the one above with (name="order3_upsample3", description="Wavelengths and resolving power for grating order 3 and upsample 3")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="order3_upsample4", description="Wavelengths and resolving power for grating order 3 and upsample 4")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="order3_upsample5", description="Wavelengths and resolving power for grating order 3 and upsample 5")

Chapter 5. SPIRE Observational Products

5.1. SPIRE Level-0 Products

5.1.1. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product (type="RST", description="Raw SPIRE Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")

DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	type (description="Product Type Identification", quantity="arcsec/year")
StringParameter	description (description="Name of this product", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec/year")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec/year")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="arcsec/year")
StringParameter	scanSpeed (description="Speed of scan", quantity="arcsec/year")
<i>Columns</i>	
<i>table dataset</i>	(name="NHK", description="Nominal HK Parameter Report")
<i>Metadata</i>	
<i>Columns</i>	
<i>ShortId</i>	NHK_VERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_TYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_DFHFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_APID (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SEGFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SSC (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTLEN (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PUSVERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTTYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTSTYPE (description="Parameter Value", quantity="1")
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<i>IntId</i>	MODE (description="Parameter Value", quantity="1")
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<i>LongId</i>	TRESET (description="Parameter Value", quantity="1")
<i>IntId</i>	TCRECV (description="Parameter Value", quantity="1")
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<i>IntId</i>	TCEXEN (description="Parameter Value", quantity="1")
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<i>IntId</i>	TM5N (description="Parameter Value", quantity="1")
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<i>Short1d</i>	DCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Short1d</i>	SCULSIFSTAT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	VM3STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VMSTATAFX (description="Parameter Value", quantity="1")
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<i>Int1d</i>	DPUP15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUM15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUTEMP (description="Parameter Value", quantity="1")
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<i>Long1d</i>	LSLOAD (description="Parameter Value", quantity="1")
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<i>Int1d</i>	PLWPHASE (description="Parameter Value", quantity="1")
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<i>Short1d</i>	PSW_VDD_JFET5 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET6 (description="Parameter Value", quantity="1")
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<i>Short1d</i>	PLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	TC_VDD_JFET (description="Parameter Value", quantity="1")
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<i>Int1d</i>	PSWJFET6V (description="Parameter Value", quantity="1")
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<i>Int1d</i>	TCJFETV (description="Parameter Value", quantity="1")
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<i>Short1d</i>	SSW_VDD_JFET2 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SLWJFET1V (description="Parameter Value", quantity="1")
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<i>Int1d</i>	TC3TEMP (description="Parameter Value", quantity="1")
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<i>Int1d</i>	BIASM9V (description="Parameter Value", quantity="1")
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<i>IntId</i>	MCUP15V (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUM15V (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECDACVAL (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOPMOTIND (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT10PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM10 (description="Parameter Value", quantity="1")

<i>Int1d</i>	MCUPCKT14PARM11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM14 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSSDEL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTEMPSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBITSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	CCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMECONF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMESTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHT2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHRTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVAPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SHUNTTEMP (description="Parameter Value", quantity="1")

<i>Int1d</i>	EMCFILTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	OPTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BAFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCALTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTTCBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTVBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTHKBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTSDBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTNTBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_HP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_LP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT10STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT12STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT14STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT15STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMINTEGRITY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTPROG (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTDATA (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPROM2RAMCOPY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBOOTMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSELECTTAB (description="Parameter Value", quantity="1")
<i>Int1d</i>	CREC_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PTC_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGLE_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTRPBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAFAILCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG1OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG2OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	TABLE7_09_LWORD (description="Parameter Value", quantity="1")

<i>LongId</i>	PTC_GET_COMMAND (description="Parameter Value", quantity="1")
<i>LongId</i>	SCAL_GET_COMMAND (description="Parameter Value", quantity="1")
<i>LongId</i>	TABLE7_12 (description="Parameter Value", quantity="1")
<i>ShortId</i>	HK_MON_STATUS (description="Parameter Value", quantity="1")
<i>IntId</i>	CHOPJIGG_DCOUPLE (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_02 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_03 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_04 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_05 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_06 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_07 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_08 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_09 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_10 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_11 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_12 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_13 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_14 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_15 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_16 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_17 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_18 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_19 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_20 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_21 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_22 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_23 (description="Parameter Value", quantity="1")
<i>LongId</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>LongId</i>	packetTime (description="TM packet time", quantity="1")
<i>IntId</i>	seqCount (description="Sequence count", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="CHK", description="Critical HK Parameter Report")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.2. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product</i> (type="RST", description="Raw SPIRE Timeline")	
<i>Metadata</i>	

StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")

DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	type (description="Product Type Identification", quantity="arcsec/year")
StringParameter	description (description="Name of this product", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec/year")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec/year")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="arcsec/year")
StringParameter	scanSpeed (description="Speed of scan", quantity="arcsec/year")
<i>Columns</i>	
<i>table dataset</i>	(name="NHK", description="Nominal HK Parameter Report")
<i>Metadata</i>	
<i>Columns</i>	
<i>ShortId</i>	NHK_VERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_TYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_DFHFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_APID (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SEGFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SSC (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTLEN (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PUSVERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTTYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTSTYPE (description="Parameter Value", quantity="1")
<i>LongId</i>	NHK_PKTCTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTFTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	BBFULLTYPE (description="Parameter Value", quantity="1")
<i>IntId</i>	MODE (description="Parameter Value", quantity="1")

<i>Int1d</i>	STEP (description="Parameter Value", quantity="1")
<i>Long1d</i>	THSK (description="Parameter Value", quantity="1")
<i>Long1d</i>	TRESET (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCRECV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCRECN (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCEXEC (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCEXEN (description="Parameter Value", quantity="1")
<i>Int1d</i>	TM1N (description="Parameter Value", quantity="1")
<i>Int1d</i>	TM2N (description="Parameter Value", quantity="1")
<i>Int1d</i>	TM3N (description="Parameter Value", quantity="1")
<i>Int1d</i>	TM4N (description="Parameter Value", quantity="1")
<i>Int1d</i>	TM5N (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUFRAMECNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUFRAMECNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMECNT (description="Parameter Value", quantity="1")
<i>Long1d</i>	TSYNC (description="Parameter Value", quantity="1")
<i>Long1d</i>	TDIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT_1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT_2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT_3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MONSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	DCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	DCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Short1d</i>	SCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	BBCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VMSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM1STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM2STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM3STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VMSTATAFX (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE0 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS0 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP5V (description="Parameter Value", quantity="1")

<i>Int1d</i>	DPUP15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUM15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CPULOAD (description="Parameter Value", quantity="1")
<i>Long1d</i>	LSLOAD (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAFRMS (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATASTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET5 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET6 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMLWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	TC_VDD_JFET (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET3V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET6V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET1V (description="Parameter Value", quantity="1")

<i>Int1d</i>	PMWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET3V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCJFETV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	OBSVER (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	TMMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	FIFO_DF_FLAG (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP9TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP8TEMP (description="Parameter Value", quantity="1")

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<i>Int1d</i>	DAQTEMP (description="Parameter Value", quantity="1")
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<i>Short1d</i>	LIAP7STAT (description="Parameter Value", quantity="1")
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<i>Short1d</i>	LIAS1STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS2STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS3STAT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUIFCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSSDEL (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUP14V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUM14V (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUM15V (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUBSMTEMP (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUSCHEDCNTLSW (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTMSW (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUFRAMESTART (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUFRAMES (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUBOOTSTAT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCANSTART (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCANMODE (description="Parameter Value", quantity="1")
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<i>Short1d</i>	SMECSCANCNT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECENC SIG1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG2 (description="Parameter Value", quantity="1")

<i>Int1d</i>	SMECENC SIG3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDT POSN (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMEC ENC FINE POSN (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMEC MOTOR VOLT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOP POSN 2 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOP P F F O F F S E T (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOP KP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOP KD (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOP KI (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOP INT REF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOP INT LIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOP P F GAIN (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOP DIFF TC 2 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOP MOT BEM F GAIN (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOP BEM FRAT FIL 1 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	BSMSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNERR (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGKD (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT10PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM03 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT12PARAM01 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCUSTAT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCUM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVHSV (description="Parameter Value", quantity="1")
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<i>Int1d</i>	TCHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHTRV (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCAL4V (description="Parameter Value", quantity="1")
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<i>Int1d</i>	BSMTEMP (description="Parameter Value", quantity="1")
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<i>Int1d</i>	LOSTSDBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTNTBLOCK (description="Parameter Value", quantity="1")
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<i>Short1d</i>	MCUPCKT14STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT15STAT (description="Parameter Value", quantity="1")
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<i>Short1d</i>	MCURAMTSTPROG (description="Parameter Value", quantity="1")
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<i>ShortId</i>	MCUBOOTMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECSELECTTAB (description="Parameter Value", quantity="1")
<i>IntId</i>	CREC_STEP (description="Parameter Value", quantity="1")
<i>IntId</i>	PTC_STAGE (description="Parameter Value", quantity="1")
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<i>IntId</i>	LOSTRPBLOCK (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAFAILCOUNT (description="Parameter Value", quantity="1")
<i>IntId</i>	SCANRES (description="Parameter Value", quantity="1")
<i>IntId</i>	VM_SMECSIG1OFF (description="Parameter Value", quantity="1")
<i>IntId</i>	VM_SMECSIG2OFF (description="Parameter Value", quantity="1")
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<i>LongId</i>	SCAL_GET_COMMAND (description="Parameter Value", quantity="1")
<i>LongId</i>	TABLE7_12 (description="Parameter Value", quantity="1")
<i>ShortId</i>	HK_MON_STATUS (description="Parameter Value", quantity="1")
<i>IntId</i>	CHOPJIGG_DCOUPLE (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_02 (description="Parameter Value", quantity="1")
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<i>IntId</i>	HK_21 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_22 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_23 (description="Parameter Value", quantity="1")
<i>LongId</i>	sdfTime (description="SpireDataFrame time", quantity="1")
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	()
<i>table dataset</i>	Dataset similar to the one above with (name="PHOTOFF", description="Photometer Offsets")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="PHOTF", description="Photometer Full Array (Nominal Science Report)")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.3. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product (type="RST", description="Raw SPIRE Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")

StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	type (description="Product Type Identification", quantity="arcsec/year")
StringParameter	description (description="Name of this product", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec/year")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec/year")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="arcsec/year")
StringParameter	scanSpeed (description="Speed of scan", quantity="arcsec/year")
<i>Columns</i>	
<i>table dataset</i>	(name="PHOTF", description="Photometer Full Array (Nominal Science Report)")
<i>Metadata</i>	
<i>Columns</i>	
<i>Int1d</i>	PHOTFARRAY001 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY002 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY003 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY004 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY005 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY006 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY007 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY008 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY009 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY010 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY011 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY012 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY013 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY014 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY015 (description="Parameter Value", quantity="1")

<i>Int1d</i>	PHOTFARRAY268 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY269 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY270 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY271 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY272 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY273 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY274 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY275 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY276 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY277 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY278 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY279 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY280 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY281 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY282 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY283 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY284 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY285 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY286 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY287 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY288 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFADCFLGS (description="Parameter Value", quantity="1")
<i>Long1d</i>	PHOTFFRAMETIME (description="Parameter Value", quantity="1")
<i>Long1d</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>Long1d</i>	packetTime (description="TM packet time", quantity="1")
<i>Int1d</i>	seqCount (description="Sequence count", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="NHK", description="Nominal HK Parameter Report")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="CHK", description="Critical HK Parameter Report")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.4. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product (type="RST", description="Raw SPIRE Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")

StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")

DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	type (description="Product Type Identification", quantity="arcsec/year")
StringParameter	description (description="Name of this product", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec/year")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec/year")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="arcsec/year")
StringParameter	scanSpeed (description="Speed of scan", quantity="arcsec/year")
<i>Columns</i>	
<i>table dataset</i>	(name="NHK", description="Nominal HK Parameter Report")
<i>Metadata</i>	
<i>Columns</i>	
<i>ShortId</i>	NHK_VERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_TYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_DFHFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_APID (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SEGFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SSC (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTLEN (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PUSVERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTTYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTSTYPE (description="Parameter Value", quantity="1")
<i>LongId</i>	NHK_PKTCTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTFTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	BBFULLTYPE (description="Parameter Value", quantity="1")
<i>IntId</i>	MODE (description="Parameter Value", quantity="1")
<i>IntId</i>	STEP (description="Parameter Value", quantity="1")

<i>LongId</i>	THSK (description="Parameter Value", quantity="1")
<i>LongId</i>	TRESET (description="Parameter Value", quantity="1")
<i>IntId</i>	TCRECV (description="Parameter Value", quantity="1")
<i>IntId</i>	TCRECN (description="Parameter Value", quantity="1")
<i>IntId</i>	TCEXEC (description="Parameter Value", quantity="1")
<i>IntId</i>	TCEXEN (description="Parameter Value", quantity="1")
<i>IntId</i>	TM1N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM2N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM3N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM4N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM5N (description="Parameter Value", quantity="1")
<i>IntId</i>	DCUFRAMECNT (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUFRAMECNT (description="Parameter Value", quantity="1")
<i>IntId</i>	SCUFRAMECNT (description="Parameter Value", quantity="1")
<i>LongId</i>	TSYNC (description="Parameter Value", quantity="1")
<i>LongId</i>	TDIFF (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT_1 (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT_2 (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT_3 (description="Parameter Value", quantity="1")
<i>IntId</i>	MONSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	DCULSIFSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	DCUHSIFMODE (description="Parameter Value", quantity="1")
<i>ShortId</i>	MCULSIFSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	MCUHSIFMODE (description="Parameter Value", quantity="1")
<i>ShortId</i>	SCULSIFSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	SCUHSIFMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	BBCOUNT (description="Parameter Value", quantity="1")
<i>IntId</i>	VMSTAT (description="Parameter Value", quantity="1")
<i>IntId</i>	VM1STAT (description="Parameter Value", quantity="1")
<i>IntId</i>	VM2STAT (description="Parameter Value", quantity="1")
<i>IntId</i>	VM3STAT (description="Parameter Value", quantity="1")
<i>IntId</i>	VMSTATAFX (description="Parameter Value", quantity="1")
<i>IntId</i>	SD_VALUE0 (description="Parameter Value", quantity="1")
<i>IntId</i>	SD_ADDRESS0 (description="Parameter Value", quantity="1")
<i>IntId</i>	SD_VALUE1 (description="Parameter Value", quantity="1")
<i>IntId</i>	SD_ADDRESS1 (description="Parameter Value", quantity="1")
<i>IntId</i>	SD_VALUE2 (description="Parameter Value", quantity="1")
<i>IntId</i>	SD_ADDRESS2 (description="Parameter Value", quantity="1")
<i>IntId</i>	SD_VALUE3 (description="Parameter Value", quantity="1")
<i>IntId</i>	SD_ADDRESS3 (description="Parameter Value", quantity="1")
<i>IntId</i>	DPUP5V (description="Parameter Value", quantity="1")
<i>IntId</i>	DPUP15V (description="Parameter Value", quantity="1")

<i>Int1d</i>	DPUM15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CPULOAD (description="Parameter Value", quantity="1")
<i>Long1d</i>	LSLOAD (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAFRMS (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATASTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET5 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET6 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMLWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	TC_VDD_JFET (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET3V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET6V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET2V (description="Parameter Value", quantity="1")

<i>Int1d</i>	PMWJFET3V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCJFETV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	OBSVER (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	TMMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	FIFO_DF_FLAG (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP9TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP8TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP7TEMP (description="Parameter Value", quantity="1")

<i>Int1d</i>	LIAP6TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP5TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	DAQTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIASSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP1STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP2STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP3STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP4STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP5STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP6STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP7STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP8STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP9STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS1STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS2STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS3STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUIFSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUIFCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSSDEL (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP14V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUM14V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUM15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUMACTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUBSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTLSW (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTMSW (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM10TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUFRAMESTART (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM12TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUFRAMES (description="Parameter Value", quantity="1")

<i>Int1d</i>	MCUTM14TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM15TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTMSTATUS (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUBOOTSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUDLOADCONF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLOSTCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLATCHSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANSTART (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANEND (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANFSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTTHRESH (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORBEMF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTSSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECFLAG (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECLVDTSIGN (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECINIT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANDIR (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANCNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG3 (description="Parameter Value", quantity="1")

<i>Int1d</i>	SMECLVDTPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTACSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTDCSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTRAJPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECPOSNDELTA (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCNEFINEPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMEANSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSCANPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCNSIG1AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCNSIG1OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCNSIG2AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCNSIG2OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCNSIG3AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCNSIG3OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPSENSPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSN2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPINTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFGAINDIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDIFFTC1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDIFFTC2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTIND (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGGCUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMSTAT (description="Parameter Value", quantity="1")

<i>Int1d</i>	CHOPPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGSENSPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSN2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGINTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGFFGAINDIFF (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGDIFFTC2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTIND (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGCHOPCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM04 (description="Parameter Value", quantity="1")

<i>Int1d</i>	MCUPCKT12PARM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM03 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT14PARM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM10 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM14 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSSDEL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTEMPSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBITSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	CCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMECONF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMESTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4V (description="Parameter Value", quantity="1")

<i>Int1d</i>	SCUCHT2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALCURRE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2CURRE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4CURRE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHTRTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVAPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SHUNTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EMCFILTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	OPTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BAFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCALTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTTCBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTEVBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTHKBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTSDBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTNTBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_HP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_LP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT10STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT12STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT14STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT15STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMINTEGRITY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTPROG (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTDATA (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPROM2RAMCOPY (description="Parameter Value", quantity="1")

<i>ShortId</i>	MCUBOOTMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECSELECTTAB (description="Parameter Value", quantity="1")
<i>IntId</i>	CREC_STEP (description="Parameter Value", quantity="1")
<i>IntId</i>	PTC_STAGE (description="Parameter Value", quantity="1")
<i>IntId</i>	SCAL_STAGE (description="Parameter Value", quantity="1")
<i>IntId</i>	JIGGLE_STEP (description="Parameter Value", quantity="1")
<i>IntId</i>	LOSTRPBLOCK (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAFAILCOUNT (description="Parameter Value", quantity="1")
<i>IntId</i>	SCANRES (description="Parameter Value", quantity="1")
<i>IntId</i>	VM_SMECSIG1OFF (description="Parameter Value", quantity="1")
<i>IntId</i>	VM_SMECSIG2OFF (description="Parameter Value", quantity="1")
<i>IntId</i>	TABLE7_09_LWORD (description="Parameter Value", quantity="1")
<i>LongId</i>	PTC_GET_COMMAND (description="Parameter Value", quantity="1")
<i>LongId</i>	SCAL_GET_COMMAND (description="Parameter Value", quantity="1")
<i>LongId</i>	TABLE7_12 (description="Parameter Value", quantity="1")
<i>ShortId</i>	HK_MON_STATUS (description="Parameter Value", quantity="1")
<i>IntId</i>	CHOPJIGG_DCOUPLE (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_02 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_03 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_04 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_05 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_06 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_07 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_08 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_09 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_10 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_11 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_12 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_13 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_14 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_15 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_16 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_17 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_18 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_19 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_20 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_21 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_22 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_23 (description="Parameter Value", quantity="1")
<i>LongId</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>LongId</i>	packetTime (description="TM packet time", quantity="1")
<i>IntId</i>	seqCount (description="Sequence count", quantity="1")

	()
<i>table dataset</i>	Dataset similar to the one above with (name="CHK", description="Critical HK Parameter Report")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="PHOTF", description="Photometer Full Array (Nominal Science Report)")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="SCUNOMINAL", description="SCU Block (Nominal Science Report)")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.5. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product (type="RST", description="Raw SPIRE Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")

DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
StringParameter	origin (description="Site that created the product", quantity="arcsec a-1")
StringParameter	type (description="Product Type Identification", quantity="arcsec a-1")
StringParameter	description (description="Name of this product", quantity="arcsec a-1")
StringParameter	level (description="The level of the product", quantity="arcsec a-1")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec a-1")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec a-1")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="arcsec a-1")
StringParameter	scanSpeed (description="Speed of scan", quantity="arcsec a-1")
<i>Columns</i>	
<i>table dataset</i>	(name="NHK", description="Nominal HK Parameter Report")
<i>Metadata</i>	
<i>Columns</i>	
<i>ShortId</i>	NHK_VERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_TYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_DFHFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_APID (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SEGFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SSC (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTLEN (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PUSVERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTTYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTSTYPE (description="Parameter Value", quantity="1")
<i>LongId</i>	NHK_PKTCTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTFTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	BBFULLTYPE (description="Parameter Value", quantity="1")
<i>IntId</i>	MODE (description="Parameter Value", quantity="1")
<i>IntId</i>	STEP (description="Parameter Value", quantity="1")
<i>LongId</i>	THSK (description="Parameter Value", quantity="1")
<i>LongId</i>	TRESET (description="Parameter Value", quantity="1")
<i>IntId</i>	TCRECV (description="Parameter Value", quantity="1")
<i>IntId</i>	TCRECN (description="Parameter Value", quantity="1")
<i>IntId</i>	TCEXEC (description="Parameter Value", quantity="1")

<i>Int1d</i>	TCEXEN (description="Parameter Value", quantity="1")
<i>Int1d</i>	TM1N (description="Parameter Value", quantity="1")
<i>Int1d</i>	TM2N (description="Parameter Value", quantity="1")
<i>Int1d</i>	TM3N (description="Parameter Value", quantity="1")
<i>Int1d</i>	TM4N (description="Parameter Value", quantity="1")
<i>Int1d</i>	TM5N (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUFRAMECNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUFRAMECNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMECNT (description="Parameter Value", quantity="1")
<i>Long1d</i>	TSYNC (description="Parameter Value", quantity="1")
<i>Long1d</i>	TDIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT_1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT_2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT_3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MONSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	DCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	DCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Short1d</i>	SCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	BBCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VMSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM1STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM2STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM3STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VMSTATAFX (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE0 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS0 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUM15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CPULOAD (description="Parameter Value", quantity="1")
<i>Long1d</i>	LSLOAD (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP2_5V (description="Parameter Value", quantity="1")

<i>Int1d</i>	DCUDATAMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAFRMS (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATASTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET5 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET6 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMLWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	TC_VDD_JFET (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET3V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET6V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET3V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTHTRV (description="Parameter Value", quantity="1")

<i>Int1d</i>	TCJFETV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	OBSVER (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER3 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	FIFO_DF_FLAG (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP9TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP8TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP7TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP6TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP5TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP2TEMP (description="Parameter Value", quantity="1")

<i>Int1d</i>	LIAP1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	DAQTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIASSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP1STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP2STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP3STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP4STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP5STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP6STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP7STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP8STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP9STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS1STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS2STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS3STAT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUIFCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSSDEL (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP14V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUM14V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUM15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUMACTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUBSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTLSW (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTMSW (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM10TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUFRAMESTART (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM12TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUFRAMES (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM14TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM15TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTMSTATUS (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUBOOTSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUDLOADCONF (description="Parameter Value", quantity="1")

<i>Int1d</i>	SMECLOSTCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCPCR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLATCHSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANSTART (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANEND (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANFSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTLIMIT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRSPEED (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECMOTORBEMF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATESCALE (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECLVDTSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSTAT (description="Parameter Value", quantity="1")
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<i>Short1d</i>	SMECLVDTSIGN (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECINIT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANDIR (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANCNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTACSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTDCSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTRAJPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDACVAL (description="Parameter Value", quantity="1")

<i>Int1d</i>	SMECPOSDELTA (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCFINEPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMEANSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSCANPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORVOLT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOPSENSPWR (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOPPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSN2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPINTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFGAIN (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOPDIFFTC2 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOPMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTIND (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGGCUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORCURR (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGSENSPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSN2 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKD (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGINTREF (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGFFGAINDIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDIFFTC1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDIFFTC2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTIND (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGCHOPCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGSENSSIG (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGMOTORVOLT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT10PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM02 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT14PARM09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM10 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM14 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSSDEL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTEMPSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBITSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	CCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMECONF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMESTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHT2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2CURR (description="Parameter Value", quantity="1")

<i>Int1d</i>	SCAL4CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHTRTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVAPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SHUNTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EMCFILTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	OPTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BAFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCALTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTTCBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTEVBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTHKBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTSDBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTNTBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_HP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_LP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT10STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT12STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT14STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT15STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMINTEGRITY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTPROG (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTDATA (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPROM2RAMCOPY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBOOTMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSELECTTAB (description="Parameter Value", quantity="1")
<i>Int1d</i>	CREC_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PTC_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL_STAGE (description="Parameter Value", quantity="1")

<i>Int1d</i>	JIGGLE_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTRPBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAFAILCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG1OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG2OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	TABLE7_09_LWORD (description="Parameter Value", quantity="1")
<i>Long1d</i>	PTC_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	SCAL_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	TABLE7_12 (description="Parameter Value", quantity="1")
<i>Short1d</i>	HK_MON_STATUS (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGG_DCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_10 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_14 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_15 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_16 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_17 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_18 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_19 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_20 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_21 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_22 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_23 (description="Parameter Value", quantity="1")
<i>Long1d</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>Long1d</i>	packetTime (description="TM packet time", quantity="1")
<i>Int1d</i>	seqCount (description="Sequence count", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="CHK", description="Critical HK Parameter Report")
	()

<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.6. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product (type="RST", description="Raw SPIRE Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")

DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
StringParameter	origin (description="Site that created the product", quantity="arcsec a-1")
StringParameter	type (description="Product Type Identification", quantity="arcsec a-1")
StringParameter	description (description="Name of this product", quantity="arcsec a-1")
StringParameter	level (description="The level of the product", quantity="arcsec a-1")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec a-1")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec a-1")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="arcsec a-1")
StringParameter	scanSpeed (description="Speed of scan", quantity="arcsec a-1")
<i>Columns</i>	
<i>table dataset</i>	(name="NHK", description="Nominal HK Parameter Report")
<i>Metadata</i>	
<i>Columns</i>	
<i>ShortId</i>	NHK_VERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_TYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_DFHFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_APID (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SEGFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SSC (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTLEN (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PUSVERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTTYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTSTYPE (description="Parameter Value", quantity="1")
<i>LongId</i>	NHK_PKTCTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTFTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	BBFULLTYPE (description="Parameter Value", quantity="1")
<i>IntId</i>	MODE (description="Parameter Value", quantity="1")
<i>IntId</i>	STEP (description="Parameter Value", quantity="1")
<i>LongId</i>	THSK (description="Parameter Value", quantity="1")
<i>LongId</i>	TRESET (description="Parameter Value", quantity="1")
<i>IntId</i>	TCRECV (description="Parameter Value", quantity="1")
<i>IntId</i>	TCRECN (description="Parameter Value", quantity="1")
<i>IntId</i>	TCEXEC (description="Parameter Value", quantity="1")
<i>IntId</i>	TCEXEN (description="Parameter Value", quantity="1")
<i>IntId</i>	TM1N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM2N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM3N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM4N (description="Parameter Value", quantity="1")

<i>Int1d</i>	TM5N (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUFRAMECNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUFRAMECNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMECNT (description="Parameter Value", quantity="1")
<i>Long1d</i>	TSYNC (description="Parameter Value", quantity="1")
<i>Long1d</i>	TDIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT_1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT_2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT_3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MONSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	DCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	DCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Short1d</i>	SCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	BBCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VMSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM1STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM2STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM3STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VMSTATAFX (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE0 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS0 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUM15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CPULOAD (description="Parameter Value", quantity="1")
<i>Long1d</i>	LSLOAD (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAFRMS (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATASTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASMODE (description="Parameter Value", quantity="1")

<i>Int1d</i>	PHOTMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET5 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET6 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMLWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	TC_VDD_JFET (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET3V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET6V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET3V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCJFETV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWBIAS (description="Parameter Value", quantity="1")

<i>Int1d</i>	SLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	OBSVER (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	TMMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	FIFO_DF_FLAG (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP9TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP8TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP7TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP6TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP5TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASTEMP (description="Parameter Value", quantity="1")

<i>Int1d</i>	DAQTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIASSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP1STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP2STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP3STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP4STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP5STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP6STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP7STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP8STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP9STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS1STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS2STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS3STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUIFSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUIFCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSSDEL (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP14V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUM14V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUM15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUMACTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUBSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTLSW (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTMSW (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM10TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUFRAMESTART (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM12TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUFRAMES (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM14TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM15TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTMSTATUS (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUBOOTSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUDLOADCONF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLOSTCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCPCR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLATCHSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLOOPMODE (description="Parameter Value", quantity="1")

<i>Int1d</i>	SCANSTART (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANEND (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANFSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTTHRESH (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORBEMF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECFLAG (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECLVDTSIGN (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECINIT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANDIR (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANCNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTACSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTDCSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTRAJPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECPOSNDELTA (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCFINEPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMEANSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSKANPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORCURR (description="Parameter Value", quantity="1")

<i>Int1d</i>	SMECMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG1AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG1OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG2AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG2OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG3AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG3OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPSENSPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSN2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPINTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFGAINDIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDIFFTC1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDIFFTC2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTIND (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGGCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGSENSPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSN2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGFFOFFSET (description="Parameter Value", quantity="1")

<i>Int1d</i>	JIGGKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGINTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGFFGAINDIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDIFFTC1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDIFFTC2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTIND (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGCHOPCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM08 (description="Parameter Value", quantity="1")

<i>Int1d</i>	MCUPCKT14PARM09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM10 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM14 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSSDEL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTEMPSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBITSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	CCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMECONF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMESTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHT2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHTRTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHSTEMP (description="Parameter Value", quantity="1")

<i>Int1d</i>	EVAPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SHUNTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EMCFILTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	OPTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BAFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCALTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTTCBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTEVBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTHKBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTSDBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTNTBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_HP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_LP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT10STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT12STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT14STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT15STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMINTEGRITY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTPROG (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTDATA (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPROM2RAMCOPY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBOOTMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSELECTTAB (description="Parameter Value", quantity="1")
<i>Int1d</i>	CREC_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PTC_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGLE_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTRPBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAFAILCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG1OFF (description="Parameter Value", quantity="1")

<i>Int1d</i>	VM_SMECSIG2OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	TABLE7_09_LWORD (description="Parameter Value", quantity="1")
<i>Long1d</i>	PTC_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	SCAL_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	TABLE7_12 (description="Parameter Value", quantity="1")
<i>Short1d</i>	HK_MON_STATUS (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGG_DCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_10 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_14 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_15 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_16 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_17 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_18 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_19 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_20 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_21 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_22 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_23 (description="Parameter Value", quantity="1")
<i>Long1d</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>Long1d</i>	packetTime (description="TM packet time", quantity="1")
<i>Int1d</i>	seqCount (description="Sequence count", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="CHK", description="Critical HK Parameter Report")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="PHOTF", description="Photometer Full Array (Nominal Science Report)")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.7. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product (type="RST", description="Raw SPIRE Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")

StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
StringParameter	origin (description="Site that created the product", quantity="arcsec a-1")
StringParameter	type (description="Product Type Identification", quantity="arcsec a-1")
StringParameter	description (description="Name of this product", quantity="arcsec a-1")
StringParameter	level (description="The level of the product", quantity="arcsec a-1")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec a-1")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec a-1")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="arcsec a-1")
StringParameter	scanSpeed (description="Speed of scan", quantity="arcsec a-1")
Columns	
table dataset	(name="NHK", description="Nominal HK Parameter Report")
Metadata	
Columns	
ShortId	NHK_VERS (description="Parameter Value", quantity="1")
ShortId	NHK_TYPE (description="Parameter Value", quantity="1")
ShortId	NHK_DFHFLAG (description="Parameter Value", quantity="1")
ShortId	NHK_APID (description="Parameter Value", quantity="1")
ShortId	NHK_SEGFLAG (description="Parameter Value", quantity="1")
ShortId	NHK_SSC (description="Parameter Value", quantity="1")
IntId	NHK_PKTLEN (description="Parameter Value", quantity="1")
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ShortId	NHK_PKTTYPE (description="Parameter Value", quantity="1")
ShortId	NHK_PKTSTYPE (description="Parameter Value", quantity="1")

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<i>IntId</i>	BBFULLTYPE (description="Parameter Value", quantity="1")
<i>IntId</i>	MODE (description="Parameter Value", quantity="1")
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<i>LongId</i>	TRESET (description="Parameter Value", quantity="1")
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<i>IntId</i>	TCRECN (description="Parameter Value", quantity="1")
<i>IntId</i>	TCEXEC (description="Parameter Value", quantity="1")
<i>IntId</i>	TCEXEN (description="Parameter Value", quantity="1")
<i>IntId</i>	TM1N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM2N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM3N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM4N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM5N (description="Parameter Value", quantity="1")
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<i>IntId</i>	MCUFRAMECNT (description="Parameter Value", quantity="1")
<i>IntId</i>	SCUFRAMECNT (description="Parameter Value", quantity="1")
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<i>LongId</i>	TDIFF (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT_1 (description="Parameter Value", quantity="1")
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<i>IntId</i>	MEMSTAT_3 (description="Parameter Value", quantity="1")
<i>IntId</i>	MONSTAT (description="Parameter Value", quantity="1")
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<i>ShortId</i>	DCUHSIFMODE (description="Parameter Value", quantity="1")
<i>ShortId</i>	MCULSIFSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	MCUHSIFMODE (description="Parameter Value", quantity="1")
<i>ShortId</i>	SCULSIFSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	SCUHSIFMODE (description="Parameter Value", quantity="1")
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<i>IntId</i>	VM3STAT (description="Parameter Value", quantity="1")
<i>IntId</i>	VMSTATAFX (description="Parameter Value", quantity="1")
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<i>IntId</i>	SD_ADDRESS0 (description="Parameter Value", quantity="1")
<i>IntId</i>	SD_VALUE1 (description="Parameter Value", quantity="1")
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<i>IntId</i>	SD_VALUE2 (description="Parameter Value", quantity="1")

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<i>Int1d</i>	SD_VALUE3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS3 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	DPUP15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUM15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CPULOAD (description="Parameter Value", quantity="1")
<i>Long1d</i>	LSLOAD (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP2_5V (description="Parameter Value", quantity="1")
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<i>Int1d</i>	DCUDATAFRMS (description="Parameter Value", quantity="1")
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<i>Int1d</i>	PLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCPHASE (description="Parameter Value", quantity="1")
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<i>Short1d</i>	PSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET5 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET6 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMLWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	TC_VDD_JFET (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET3V (description="Parameter Value", quantity="1")

<i>Int1d</i>	PSWJFET4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET6V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET3V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCJFETV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	OBSVER (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER3 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	FIFO_DF_FLAG (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP9V (description="Parameter Value", quantity="1")
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<i>Int1d</i>	LIAP3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	DAQTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIASSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP1STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP2STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP3STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP4STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP5STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP6STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP7STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP8STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP9STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS1STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS2STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS3STAT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUIFCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSSDEL (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP14V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUM14V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUM15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUMACTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUBSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTLSW (description="Parameter Value", quantity="1")

<i>Int1d</i>	MCUSCHEDCNTMSW (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUFRAMES (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUTM15TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTMSTATUS (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUBOOTSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUDLOADCONF (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECLVDTPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLATCHSTAT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCANEND (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANFSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTTHRESH (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORBEMF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECFLAG (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECLVDTSIGN (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECINIT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANDIR (description="Parameter Value", quantity="1")

<i>ShortId</i>	SMECSCANCNT (description="Parameter Value", quantity="1")
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<i>IntId</i>	SMECENCSIG2 (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECENCSIG3 (description="Parameter Value", quantity="1")
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<i>IntId</i>	SMECLVDTACSIG (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECLVDTDCSIG (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECTRAJPOSN (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECDACVAL (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECPOSNDELTA (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECENCFINEPOSN (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECMEANSPEED (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECSCANPOSNERR (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECMOTORCURR (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECMOTORVOLT (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECENCSIG1AMP (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECENCSIG1OFF (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECENCSIG2AMP (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECENCSIG2OFF (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECENCSIG3AMP (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECENCSIG3OFF (description="Parameter Value", quantity="1")
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<i>IntId</i>	CHOPLOOPMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	CHOPPOSN (description="Parameter Value", quantity="1")
<i>IntId</i>	CHOPPOSN2 (description="Parameter Value", quantity="1")
<i>IntId</i>	BSMMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	CHOPFFOFFSET (description="Parameter Value", quantity="1")
<i>IntId</i>	CHOPKP (description="Parameter Value", quantity="1")
<i>IntId</i>	CHOPKD (description="Parameter Value", quantity="1")
<i>IntId</i>	CHOPKI (description="Parameter Value", quantity="1")
<i>IntId</i>	CHOPINTREF (description="Parameter Value", quantity="1")
<i>IntId</i>	CHOPINTLIMIT (description="Parameter Value", quantity="1")
<i>IntId</i>	CHOPFFGAIN (description="Parameter Value", quantity="1")
<i>IntId</i>	CHOPFFGAINDIFF (description="Parameter Value", quantity="1")
<i>IntId</i>	CHOPDIFFTC1 (description="Parameter Value", quantity="1")
<i>IntId</i>	CHOPDIFFTC2 (description="Parameter Value", quantity="1")
<i>IntId</i>	CHOPRATELIMIT (description="Parameter Value", quantity="1")
<i>IntId</i>	CHOPMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>IntId</i>	CHOPMOTRES (description="Parameter Value", quantity="1")
<i>IntId</i>	CHOPMOTIND (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOPBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGGCUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORVOLT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGPOSN (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKD (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGDIFFTC2 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGMOTBEMFGAIN (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGCHOPCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM03 (description="Parameter Value", quantity="1")

<i>Int1d</i>	MCUPCKT10PARAM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM10 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM14 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSSDEL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTEMPSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBITSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	CCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMECONF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMES (description="Parameter Value", quantity="1")

<i>Int1d</i>	SCUFRAMESTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHT2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHTRTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVAPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SHUNTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EMCFILTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	OPTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BAFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCALTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTTCBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTEVBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTHKBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTSDBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTNTBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_HP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_LP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT10STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT12STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT14STAT (description="Parameter Value", quantity="1")

<i>ShortId</i>	MCUPCKT15STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	MCURAMINTEGRITY (description="Parameter Value", quantity="1")
<i>ShortId</i>	MCURAMTSTPROG (description="Parameter Value", quantity="1")
<i>ShortId</i>	MCURAMTSTDATA (description="Parameter Value", quantity="1")
<i>ShortId</i>	MCUPROM2RAMCOPY (description="Parameter Value", quantity="1")
<i>ShortId</i>	MCUBOOTMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECSELECTTAB (description="Parameter Value", quantity="1")
<i>IntId</i>	CREC_STEP (description="Parameter Value", quantity="1")
<i>IntId</i>	PTC_STAGE (description="Parameter Value", quantity="1")
<i>IntId</i>	SCAL_STAGE (description="Parameter Value", quantity="1")
<i>IntId</i>	JIGGLE_STEP (description="Parameter Value", quantity="1")
<i>IntId</i>	LOSTRPBLOCK (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAFAILCOUNT (description="Parameter Value", quantity="1")
<i>IntId</i>	SCANRES (description="Parameter Value", quantity="1")
<i>IntId</i>	VM_SMECSIG1OFF (description="Parameter Value", quantity="1")
<i>IntId</i>	VM_SMECSIG2OFF (description="Parameter Value", quantity="1")
<i>IntId</i>	TABLE7_09_LWORD (description="Parameter Value", quantity="1")
<i>LongId</i>	PTC_GET_COMMAND (description="Parameter Value", quantity="1")
<i>LongId</i>	SCAL_GET_COMMAND (description="Parameter Value", quantity="1")
<i>LongId</i>	TABLE7_12 (description="Parameter Value", quantity="1")
<i>ShortId</i>	HK_MON_STATUS (description="Parameter Value", quantity="1")
<i>IntId</i>	CHOPJIGG_DCOUPLE (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_02 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_03 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_04 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_05 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_06 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_07 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_08 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_09 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_10 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_11 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_12 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_13 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_14 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_15 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_16 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_17 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_18 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_19 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_20 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_21 (description="Parameter Value", quantity="1")

<i>Int1d</i>	HK_22 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_23 (description="Parameter Value", quantity="1")
<i>Long1d</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>Long1d</i>	packetTime (description="TM packet time", quantity="1")
<i>Int1d</i>	seqCount (description="Sequence count", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="CHK", description="Critical HK Parameter Report")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="PHOTOFF", description="Photometer Offsets")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="PHOTF", description="Photometer Full Array (Nominal Science Report)")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.8. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product (type="RST", description="Raw SPIRE Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")

StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
StringParameter	origin (description="Site that created the product", quantity="arcsec a-1")
StringParameter	type (description="Product Type Identification", quantity="arcsec a-1")
StringParameter	description (description="Name of this product", quantity="arcsec a-1")
StringParameter	level (description="The level of the product", quantity="arcsec a-1")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec a-1")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec a-1")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="arcsec a-1")
StringParameter	scanSpeed (description="Speed of scan", quantity="arcsec a-1")
<i>Columns</i>	
<i>table dataset</i>	(name="PHOTF", description="Photometer Full Array (Nominal Science Report)")
<i>Metadata</i>	
<i>Columns</i>	
<i>Int1d</i>	PHOTFARRAY001 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY002 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY003 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY004 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY005 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY006 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY007 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY008 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY009 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY010 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY011 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY012 (description="Parameter Value", quantity="1")

<i>Int1d</i>	PHOTFARRAY265 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY266 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY267 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY268 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY269 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY270 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY271 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY272 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY273 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY274 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY275 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY276 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY277 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY278 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY279 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY280 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY281 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY282 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY283 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY284 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY285 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY286 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY287 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY288 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFADCFLGS (description="Parameter Value", quantity="1")
<i>Long1d</i>	PHOTFFRAMETIME (description="Parameter Value", quantity="1")
<i>Long1d</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>Long1d</i>	packetTime (description="TM packet time", quantity="1")
<i>Int1d</i>	seqCount (description="Sequence count", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="NHK", description="Nominal HK Parameter Report")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="CHK", description="Critical HK Parameter Report")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.9. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product</i> (type="RST", description="Raw SPIRE Timeline")
--

<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")

DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
StringParameter	origin (description="Site that created the product", quantity="arcsec a-1")
StringParameter	type (description="Product Type Identification", quantity="arcsec a-1")
StringParameter	description (description="Name of this product", quantity="arcsec a-1")
StringParameter	level (description="The level of the product", quantity="arcsec a-1")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec a-1")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec a-1")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="arcsec a-1")
StringParameter	scanSpeed (description="Speed of scan", quantity="arcsec a-1")
<i>Columns</i>	
<i>table dataset</i>	(name="NHK", description="Nominal HK Parameter Report")
<i>Metadata</i>	
<i>Columns</i>	
<i>ShortId</i>	NHK_VERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_TYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_DFHFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_APID (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SEGFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SSC (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTLEN (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PUSVERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTTYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTSTYPE (description="Parameter Value", quantity="1")
<i>LongId</i>	NHK_PKTCTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTFTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	BBFULLTYPE (description="Parameter Value", quantity="1")
<i>IntId</i>	MODE (description="Parameter Value", quantity="1")

<i>Int1d</i>	STEP (description="Parameter Value", quantity="1")
<i>Long1d</i>	THSK (description="Parameter Value", quantity="1")
<i>Long1d</i>	TRESET (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCRECV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCRECN (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCEXEC (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCEXEN (description="Parameter Value", quantity="1")
<i>Int1d</i>	TM1N (description="Parameter Value", quantity="1")
<i>Int1d</i>	TM2N (description="Parameter Value", quantity="1")
<i>Int1d</i>	TM3N (description="Parameter Value", quantity="1")
<i>Int1d</i>	TM4N (description="Parameter Value", quantity="1")
<i>Int1d</i>	TM5N (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUFRAMECNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUFRAMECNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMECNT (description="Parameter Value", quantity="1")
<i>Long1d</i>	TSYNC (description="Parameter Value", quantity="1")
<i>Long1d</i>	TDIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT_1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT_2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT_3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MONSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	DCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	DCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Short1d</i>	SCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	BBCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VMSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM1STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM2STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM3STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VMSTATAFX (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE0 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS0 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP5V (description="Parameter Value", quantity="1")

<i>Int1d</i>	DPUP15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUM15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CPULOAD (description="Parameter Value", quantity="1")
<i>Long1d</i>	LSLOAD (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAFRMS (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATASTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET5 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET6 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMLWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	TC_VDD_JFET (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET3V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET6V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET1V (description="Parameter Value", quantity="1")

<i>Int1d</i>	PMWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET3V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCJFETV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	OBSVER (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER3 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	FIFO_DF_FLAG (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP9TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP8TEMP (description="Parameter Value", quantity="1")

<i>Int1d</i>	LIAP7TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP6TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP5TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	DAQTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIASSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP1STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP2STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP3STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP4STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP5STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP6STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP7STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP8STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP9STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS1STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS2STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS3STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUIFSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUIFCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSSDEL (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP14V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUM14V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUM15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUMACTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUBSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTLSW (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTMSW (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM10TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUFRAMESTART (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM12TSAMPLE (description="Parameter Value", quantity="1")

<i>Int1d</i>	MCUFRAMES (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM14TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM15TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTMSTATUS (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUBOOTSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUDLOADCONF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLOSTCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLATCHSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANSTART (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANEND (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANFSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTTHRESH (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORBEMF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECFLAG (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECLVDTSIGN (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECINIT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANDIR (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANCNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG2 (description="Parameter Value", quantity="1")

<i>Int1d</i>	SMECENC SIG3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDT POSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDT AC SIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDT DC SIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTRAJ POSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDAC VAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMEC POSN DELTA (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC FINE POSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMEC MEAN SPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMEC SCAN POSN ERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMEC MOTOR CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMEC MOTOR VOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG1 AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG1 OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG2 AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG2 OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG3 AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG3 OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOP SENS PWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOP LOOP MODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOP POSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOP POSN2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSM MODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOP PFF OFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOP KP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOP KD (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOP KI (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOP INT REF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOP INT LIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOP PFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOP PFGAIN DIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOP DIFF TC1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOP DIFF TC2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOP RATE LIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOP MOT BEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOP MOT RES (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOP MOT IND (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOP RATE SCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOP POSN SCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOP BEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOP BEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOP JIGG COUPLE (description="Parameter Value", quantity="1")

<i>Int1d</i>	BSMSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGSENSPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSN2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGINTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGINTLIMIT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGFFGAINDIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDIFFTC1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDIFFTC2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTRES (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGCHOPCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM03 (description="Parameter Value", quantity="1")

<i>Int1d</i>	MCUPCKT12PARM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM10 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM14 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCUIFCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSSDEL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTEMPSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBITSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	CCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMECONF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMESTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2V (description="Parameter Value", quantity="1")

<i>Int1d</i>	SCAL4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHT2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHTRTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVAPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SHUNTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EMCFILTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	OPTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BAFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCALTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTTCBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTVBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTHKBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTSDBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTNTBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_HP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_LP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT10STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT12STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT14STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT15STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMINTEGRITY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTPROG (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTDATA (description="Parameter Value", quantity="1")

<i>ShortId</i>	MCUPROM2RAMCOPY (description="Parameter Value", quantity="1")
<i>ShortId</i>	MCUBOOTMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECSELECTTAB (description="Parameter Value", quantity="1")
<i>IntId</i>	CREC_STEP (description="Parameter Value", quantity="1")
<i>IntId</i>	PTC_STAGE (description="Parameter Value", quantity="1")
<i>IntId</i>	SCAL_STAGE (description="Parameter Value", quantity="1")
<i>IntId</i>	JIGGLE_STEP (description="Parameter Value", quantity="1")
<i>IntId</i>	LOSTRPBLOCK (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAFAILCOUNT (description="Parameter Value", quantity="1")
<i>IntId</i>	SCANRES (description="Parameter Value", quantity="1")
<i>IntId</i>	VM_SMECSIG1OFF (description="Parameter Value", quantity="1")
<i>IntId</i>	VM_SMECSIG2OFF (description="Parameter Value", quantity="1")
<i>IntId</i>	TABLE7_09_LWORD (description="Parameter Value", quantity="1")
<i>LongId</i>	PTC_GET_COMMAND (description="Parameter Value", quantity="1")
<i>LongId</i>	SCAL_GET_COMMAND (description="Parameter Value", quantity="1")
<i>LongId</i>	TABLE7_12 (description="Parameter Value", quantity="1")
<i>ShortId</i>	HK_MON_STATUS (description="Parameter Value", quantity="1")
<i>IntId</i>	CHOPJIGG_DCOUPLE (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_02 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_03 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_04 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_05 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_06 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_07 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_08 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_09 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_10 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_11 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_12 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_13 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_14 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_15 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_16 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_17 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_18 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_19 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_20 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_21 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_22 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_23 (description="Parameter Value", quantity="1")
<i>LongId</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>LongId</i>	packetTime (description="TM packet time", quantity="1")

<i>Int1d</i>	seqCount (description="Sequence count", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="CHK", description="Critical HK Parameter Report")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="PHOTF", description="Photometer Full Array (Nominal Science Report)")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="SCUNOMINAL", description="SCU Block (Nominal Science Report)")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.10. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product (type="RST", description="Raw SPIRE Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")

DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	type (description="Product Type Identification", quantity="arcsec/year")
StringParameter	description (description="Name of this product", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec/year")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec/year")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="arcsec/year")
StringParameter	scanSpeed (description="Speed of scan", quantity="arcsec/year")
<i>Columns</i>	
<i>table dataset</i>	(name="CHK", description="Critical HK Parameter Report")
<i>Metadata</i>	
<i>Columns</i>	
<i>Int1d</i>	SID_C (description="Parameter Value", quantity="1")
<i>Long1d</i>	OBSID_C (description="Parameter Value", quantity="1")
<i>Long1d</i>	BBID_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MODE_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	STEP_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCRECV_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCEXEC_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT1_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT2_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT3_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MONSTAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUIFSTAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFSTAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFETSTAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET2_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET3_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET4_C (description="Parameter Value", quantity="1")

<i>ShortId</i>	PSW_VDD_JFET5_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	PSW_VDD_JFET6_C (description="Parameter Value", quantity="1")
<i>IntId</i>	PMLWJFETSTAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	PMW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	PMW_VDD_JFET2_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	PMW_VDD_JFET3_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	PMW_VDD_JFET4_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	PLW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	PLW_VDD_JFET2_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	TC_VDD_JFET_C (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECJFETSTAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	SLW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	SSW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	SSW_VDD_JFET2_C (description="Parameter Value", quantity="1")
<i>IntId</i>	LIASSTAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP1STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP2STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP3STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP4STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP5STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP6STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP7STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP8STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP9STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAS1STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAS2STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAS3STAT_C (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUERR_C (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECSTAT_C (description="Parameter Value", quantity="1")
<i>IntId</i>	BSMSTAT_C (description="Parameter Value", quantity="1")
<i>IntId</i>	SCUSTAT_C (description="Parameter Value", quantity="1")
<i>IntId</i>	SUBKTEMP_C (description="Parameter Value", quantity="1")
<i>IntId</i>	OBSVER_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	OBSVER1_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	OBSVER2_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	OBSVER3_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_VERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_TYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_DFHFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_APID (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_SEGFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_SSC (description="Parameter Value", quantity="1")

<i>Int1d</i>	CHK_PKTLEN (description="Parameter Value", quantity="1")
<i>Short1d</i>	CHK_PUSVERS (description="Parameter Value", quantity="1")
<i>Short1d</i>	CHK_PKTTYPE (description="Parameter Value", quantity="1")
<i>Short1d</i>	CHK_PKTSTYPE (description="Parameter Value", quantity="1")
<i>Long1d</i>	CHK_PKTCTIME (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHK_PKTFTIME (description="Parameter Value", quantity="1")
<i>Long1d</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>Long1d</i>	packetTime (description="TM packet time", quantity="1")
<i>Int1d</i>	seqCount (description="Sequence count", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="NHK", description="Nominal HK Parameter Report")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.11. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product (type="RST", description="Raw SPIRE Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")

StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	type (description="Product Type Identification", quantity="arcsec/year")
StringParameter	description (description="Name of this product", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec/year")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec/year")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="arcsec/year")
StringParameter	scanSpeed (description="Speed of scan", quantity="arcsec/year")
<i>Columns</i>	
<i>table dataset</i>	(name="NHK", description="Nominal HK Parameter Report")
<i>Metadata</i>	
<i>Columns</i>	
<i>ShortId</i>	NHK_VERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_TYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_DFHFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_APID (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SEGFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SSC (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTLEN (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PUSVERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTTYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTSTYPE (description="Parameter Value", quantity="1")
<i>LongId</i>	NHK_PKTCTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTFTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	BBFULLTYPE (description="Parameter Value", quantity="1")
<i>IntId</i>	MODE (description="Parameter Value", quantity="1")
<i>IntId</i>	STEP (description="Parameter Value", quantity="1")

<i>LongId</i>	THSK (description="Parameter Value", quantity="1")
<i>LongId</i>	TRESET (description="Parameter Value", quantity="1")
<i>IntId</i>	TCRECV (description="Parameter Value", quantity="1")
<i>IntId</i>	TCRECN (description="Parameter Value", quantity="1")
<i>IntId</i>	TCEXEC (description="Parameter Value", quantity="1")
<i>IntId</i>	TCEXEN (description="Parameter Value", quantity="1")
<i>IntId</i>	TM1N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM2N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM3N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM4N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM5N (description="Parameter Value", quantity="1")
<i>IntId</i>	DCUFRAMECNT (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUFRAMECNT (description="Parameter Value", quantity="1")
<i>IntId</i>	SCUFRAMECNT (description="Parameter Value", quantity="1")
<i>LongId</i>	TSYNC (description="Parameter Value", quantity="1")
<i>LongId</i>	TDIFF (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT_1 (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT_2 (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT_3 (description="Parameter Value", quantity="1")
<i>IntId</i>	MONSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	DCULSIFSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	DCUHSIFMODE (description="Parameter Value", quantity="1")
<i>ShortId</i>	MCULSIFSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	MCUHSIFMODE (description="Parameter Value", quantity="1")
<i>ShortId</i>	SCULSIFSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	SCUHSIFMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	BBCOUNT (description="Parameter Value", quantity="1")
<i>IntId</i>	VMSTAT (description="Parameter Value", quantity="1")
<i>IntId</i>	VM1STAT (description="Parameter Value", quantity="1")
<i>IntId</i>	VM2STAT (description="Parameter Value", quantity="1")
<i>IntId</i>	VM3STAT (description="Parameter Value", quantity="1")
<i>IntId</i>	VMSTATAFX (description="Parameter Value", quantity="1")
<i>IntId</i>	SD_VALUE0 (description="Parameter Value", quantity="1")
<i>IntId</i>	SD_ADDRESS0 (description="Parameter Value", quantity="1")
<i>IntId</i>	SD_VALUE1 (description="Parameter Value", quantity="1")
<i>IntId</i>	SD_ADDRESS1 (description="Parameter Value", quantity="1")
<i>IntId</i>	SD_VALUE2 (description="Parameter Value", quantity="1")
<i>IntId</i>	SD_ADDRESS2 (description="Parameter Value", quantity="1")
<i>IntId</i>	SD_VALUE3 (description="Parameter Value", quantity="1")
<i>IntId</i>	SD_ADDRESS3 (description="Parameter Value", quantity="1")
<i>IntId</i>	DPUP5V (description="Parameter Value", quantity="1")
<i>IntId</i>	DPUP15V (description="Parameter Value", quantity="1")

<i>Int1d</i>	DPUM15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CPULOAD (description="Parameter Value", quantity="1")
<i>Long1d</i>	LSLOAD (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAFRMS (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATASTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET5 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET6 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMLWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	TC_VDD_JFET (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET3V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET6V (description="Parameter Value", quantity="1")
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<i>Int1d</i>	TCJFETV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECMCLKDIV (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SSWPHASE (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SPECJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC3TEMP (description="Parameter Value", quantity="1")
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<i>Int1d</i>	BIASP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	OBSVER (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER3 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	FIFO_DF_FLAG (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP9V (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SLIAM9V (description="Parameter Value", quantity="1")
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<i>Int1d</i>	LIAP1TEMP (description="Parameter Value", quantity="1")
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<i>Int1d</i>	LIAS2TEMP (description="Parameter Value", quantity="1")
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<i>Short1d</i>	LIAP2STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP3STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP4STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP5STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP6STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP7STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP8STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP9STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS1STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS2STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS3STAT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUIFCTRL (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUP14V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUM14V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUM15V (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUSCHEDCNTLSW (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTMSW (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUTM12TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUFRAMES (description="Parameter Value", quantity="1")

<i>Int1d</i>	MCUTM14TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM15TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTMSTATUS (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUBOOTSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUDLOADCONF (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECLATCHSTAT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCANSTART (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANEND (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANFSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANMODE (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTTHRESH (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECDFILT2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRSPEED (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECMOTORBEMF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATESCALE (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECSTAT (description="Parameter Value", quantity="1")
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<i>Short1d</i>	SMECLVDTSIGN (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECINIT (description="Parameter Value", quantity="1")
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<i>Short1d</i>	SMECSCANCNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG3 (description="Parameter Value", quantity="1")

<i>Int1d</i>	SMECLVDTPOSN (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECLVDTDCSIG (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECDACVAL (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECENCFINEPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMEANSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSKANPOSNERR (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOPPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSN2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMMODE (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOPKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKI (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOPINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFGAIN (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOPDIFFTC2 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOPMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTIND (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGGCUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMSTAT (description="Parameter Value", quantity="1")

<i>Int1d</i>	CHOPPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORCURR (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGLOOPMODE (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKI (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGFFGAINDIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDIFFTC1 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGMOTRES (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGMOTORVOLT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT10PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM02 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT12PARAM01 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT12PARM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM03 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT14PARM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM10 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM14 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCUIFCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSSDEL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTEMPSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT (description="Parameter Value", quantity="1")
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<i>Short1d</i>	SLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBITSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHTRV (description="Parameter Value", quantity="1")
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<i>Int1d</i>	TCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMECONF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMESTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4V (description="Parameter Value", quantity="1")

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<i>Int1d</i>	SCUCHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALCURR (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCAL4CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHTRTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVAPHSTEMP (description="Parameter Value", quantity="1")
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<i>Int1d</i>	EMCFILTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SL0TEMP (description="Parameter Value", quantity="1")
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<i>Int1d</i>	OPTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BAFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCALTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTTCBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTEVBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTHKBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTSDBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTNTBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_HP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_LP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT10STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT12STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT14STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT15STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMINTEGRITY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTPROG (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTDATA (description="Parameter Value", quantity="1")

<i>ShortId</i>	MCUPROM2RAMCOPY (description="Parameter Value", quantity="1")
<i>ShortId</i>	MCUBOOTMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECSELECTTAB (description="Parameter Value", quantity="1")
<i>IntId</i>	CREC_STEP (description="Parameter Value", quantity="1")
<i>IntId</i>	PTC_STAGE (description="Parameter Value", quantity="1")
<i>IntId</i>	SCAL_STAGE (description="Parameter Value", quantity="1")
<i>IntId</i>	JIGGLE_STEP (description="Parameter Value", quantity="1")
<i>IntId</i>	LOSTRPBLOCK (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAFAILCOUNT (description="Parameter Value", quantity="1")
<i>IntId</i>	SCANRES (description="Parameter Value", quantity="1")
<i>IntId</i>	VM_SMECSIG1OFF (description="Parameter Value", quantity="1")
<i>IntId</i>	VM_SMECSIG2OFF (description="Parameter Value", quantity="1")
<i>IntId</i>	TABLE7_09_LWORD (description="Parameter Value", quantity="1")
<i>LongId</i>	PTC_GET_COMMAND (description="Parameter Value", quantity="1")
<i>LongId</i>	SCAL_GET_COMMAND (description="Parameter Value", quantity="1")
<i>LongId</i>	TABLE7_12 (description="Parameter Value", quantity="1")
<i>ShortId</i>	HK_MON_STATUS (description="Parameter Value", quantity="1")
<i>IntId</i>	CHOPJIGG_DCOUPLE (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_02 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_03 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_04 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_05 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_06 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_07 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_08 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_09 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_10 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_11 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_12 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_13 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_14 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_15 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_16 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_17 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_18 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_19 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_20 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_21 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_22 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_23 (description="Parameter Value", quantity="1")

	<i>LongId</i>	sdfTime (description="SpireDataFrame time", quantity="1")
	<i>LongId</i>	packetTime (description="TM packet time", quantity="1")
	<i>IntId</i>	seqCount (description="Sequence count", quantity="1")
	()	
	<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.12. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product (type="RST", description="Raw SPIRE Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")

DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	type (description="Product Type Identification", quantity="arcsec/year")
StringParameter	description (description="Name of this product", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec/year")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec/year")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="arcsec/year")
StringParameter	scanSpeed (description="Speed of scan", quantity="arcsec/year")
<i>Columns</i>	
<i>table dataset</i>	(name="CHK", description="Critical HK Parameter Report")
<i>Metadata</i>	
<i>Columns</i>	
<i>Int1d</i>	SID_C (description="Parameter Value", quantity="1")
<i>Long1d</i>	OBSID_C (description="Parameter Value", quantity="1")
<i>Long1d</i>	BBID_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MODE_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	STEP_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCRECV_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCEXEC_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT1_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT2_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT3_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MONSTAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUIFSTAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFSTAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFETSTAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET2_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET3_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET4_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET5_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET6_C (description="Parameter Value", quantity="1")

<i>Int1d</i>	PMLWJFETSTAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET2_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET3_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET4_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET2_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	TC_VDD_JFET_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECJFETSTAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET2_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIASSTAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP1STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP2STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP3STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP4STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP5STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP6STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP7STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP8STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP9STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS1STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS2STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS3STAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUERR_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSTAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMSTAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSTAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKTEMP_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	OBSVER_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER1_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER2_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER3_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	CHK_VERS (description="Parameter Value", quantity="1")
<i>Short1d</i>	CHK_TYPE (description="Parameter Value", quantity="1")
<i>Short1d</i>	CHK_DFHFLAG (description="Parameter Value", quantity="1")
<i>Short1d</i>	CHK_APID (description="Parameter Value", quantity="1")
<i>Short1d</i>	CHK_SEGFLAG (description="Parameter Value", quantity="1")
<i>Short1d</i>	CHK_SSC (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHK_PKTLEN (description="Parameter Value", quantity="1")
<i>Short1d</i>	CHK_PUSVERS (description="Parameter Value", quantity="1")

<i>ShortId</i>	CHK_PKTTYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_PKTSTYPE (description="Parameter Value", quantity="1")
<i>LongId</i>	CHK_PKTCTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	CHK_PKTFTIME (description="Parameter Value", quantity="1")
<i>LongId</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>LongId</i>	packetTime (description="TM packet time", quantity="1")
<i>IntId</i>	seqCount (description="Sequence count", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="NHK", description="Nominal HK Parameter Report")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="PHOTF", description="Photometer Full Array (Nominal Science Report)")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.13. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product (type="RST", description="Raw SPIRE Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")

StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	type (description="Product Type Identification", quantity="arcsec/year")
StringParameter	description (description="Name of this product", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec/year")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec/year")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="arcsec/year")
StringParameter	scanSpeed (description="Speed of scan", quantity="arcsec/year")
<i>Columns</i>	
<i>table dataset</i>	(name="CHK", description="Critical HK Parameter Report")
<i>Metadata</i>	
<i>Columns</i>	
<i>Int1d</i>	SID_C (description="Parameter Value", quantity="1")
<i>Long1d</i>	OBSID_C (description="Parameter Value", quantity="1")
<i>Long1d</i>	BBID_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MODE_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	STEP_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCRECV_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCEXEC_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT1_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT2_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT3_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MONSTAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT_C (description="Parameter Value", quantity="1")

<i>Int1d</i>	MCUIFSTAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFSTAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFETSTAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET2_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET3_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET4_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET5_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET6_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMLWJFETSTAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET2_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET3_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET4_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET2_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	TC_VDD_JFET_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECJFETSTAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET2_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIASSTAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP1STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP2STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP3STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP4STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP5STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP6STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP7STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP8STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP9STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS1STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS2STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS3STAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUERR_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSTAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMSTAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSTAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKTEMP_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	OBSVER_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER1_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER2_C (description="Parameter Value", quantity="1")

<i>ShortId</i>	OBSVER3_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_VERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_TYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_DFHFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_APID (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_SEGFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_SSC (description="Parameter Value", quantity="1")
<i>IntId</i>	CHK_PKTLEN (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_PUSVERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_PKTTYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_PKTSTYPE (description="Parameter Value", quantity="1")
<i>LongId</i>	CHK_PKTCTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	CHK_PKTFTIME (description="Parameter Value", quantity="1")
<i>LongId</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>LongId</i>	packetTime (description="TM packet time", quantity="1")
<i>IntId</i>	seqCount (description="Sequence count", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="NHK", description="Nominal HK Parameter Report")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="PHOTOFF", description="Photometer Offsets")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.14. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product (type="RST", description="Raw SPIRE Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")

StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	type (description="Product Type Identification", quantity="arcsec/year")
StringParameter	description (description="Name of this product", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec/year")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec/year")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="arcsec/year")
StringParameter	scanSpeed (description="Speed of scan", quantity="arcsec/year")
Columns	
table dataset	(name="PHOTF", description="Photometer Full Array (Nominal Science Report)")
Metadata	
Columns	
IntId	PHOTFARRAY001 (description="Parameter Value", quantity="1")
IntId	PHOTFARRAY002 (description="Parameter Value", quantity="1")
IntId	PHOTFARRAY003 (description="Parameter Value", quantity="1")

<i>Int1d</i>	PHOTFARRAY256 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY257 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY258 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY259 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY260 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY261 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY262 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY263 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY264 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY265 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY266 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY267 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY268 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY269 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY270 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY271 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY272 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY273 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY274 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY275 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY276 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY277 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY278 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY279 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY280 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY281 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY282 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY283 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY284 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY285 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY286 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY287 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFARRAY288 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTFADCFLGS (description="Parameter Value", quantity="1")
<i>Long1d</i>	PHOTFFRAMETIME (description="Parameter Value", quantity="1")
<i>Long1d</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>Long1d</i>	packetTime (description="TM packet time", quantity="1")
<i>Int1d</i>	seqCount (description="Sequence count", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="CHK", description="Critical HK Parameter Report")
	()

<i>table dataset</i>	Dataset similar to the one above with (name="NHK", description="Nominal HK Parameter Report")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.15. SPIRE Product Level 0 - HPTCVERS

<i>product (type="HPTCVERS", description="HPTCVERS")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfiguration (description="Mission Configuration")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")

DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="Observation Mode", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	debug (description="???", quantity="km s-1")
BooleanParameter	isBrightPacs (description="HSPOT: bright source for PACS (true/false)", quantity="km s-1")
BooleanParameter	isBrightSpire (description="HSPOT: bright source for SPIRE (true/false)", quantity="km s-1")
BooleanParameter	mapOrientationArray (description="HSPOT: The map orientation reference frame is 'array' (rather than array with sky constraints) true/false", quantity="km s-1")
BooleanParameter	pBool1 (description="???", quantity="km s-1")
BooleanParameter	pBool2 (description="???", quantity="km s-1")
DoubleParameter	mapOffsetY (description="HSPOT: offset to observation position from target in Y direction", quantity="arcmin")
DoubleParameter	mapOffsetZ (description="HSPOT: offset to observation position from target in Z direction", quantity="arcmin")
DoubleParameter	mapOrientationConFrom (description="HSPOT: Map orientation constraint lower limit", quantity="arcmin")
DoubleParameter	mapOrientationConTo (description="HSPOT: Map orientation constraint upper limit", quantity="arcmin")
DoubleParameter	mapSize1 (description="HSPOT: map length", quantity="arcmin")
DoubleParameter	mapSize2 (description="HSPOT: map height", quantity="arcmin")

DoubleParameter	pDouble1 (description="???", quantity="arcmin")
DoubleParameter	pDouble2 (description="???", quantity="arcmin")
LongParameter	pInt1 (description="???", quantity="arcmin")
LongParameter	pInt2 (description="???", quantity="arcmin")
StringParameter	blue (description="HSPOT: PACS blue filter selection (values blue1 or blue2)", quantity="arcmin")
StringParameter	bsmModel (description="???", quantity="arcmin")
StringParameter	bsmVersion (description="???", quantity="arcmin")
StringParameter	comVersion (description="???", quantity="arcmin")
StringParameter	flashVersion (description="???", quantity="arcmin")
StringParameter	mapScanRate (description="HSPOT: map scan rate (fast / slow)", quantity="arcmin")
StringParameter	opsVersion (description="???", quantity="arcmin")
StringParameter	pString1 (description="???", quantity="arcmin")
StringParameter	pString2 (description="???", quantity="arcmin")
StringParameter	photVersion (description="???", quantity="arcmin")
StringParameter	scanDirection (description="HSPOT: map scan direction (nominal / orthogonal)", quantity="arcmin")
StringParameter	spireVersion (description="???", quantity="arcmin")
DateParameter	odStartTime (description="Operational Day start time", quantity="arcmin")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="arcmin")
DoubleParameter	BOL_VD_B_1 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_1 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_2 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_2 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_3 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_3 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_4 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_4 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_R_1 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_R_1 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_R_2 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_R_2 (description="null", quantity="arcmin")
DoubleParameter	compVersion (description="null", quantity="arcmin")
DoubleParameter	algoNumber (description="null", quantity="arcmin")
StringParameter	algorithm (description="null", quantity="arcmin")
DoubleParameter	compNumber (description="null", quantity="arcmin")
StringParameter	compMode (description="null", quantity="arcmin")
DoubleParameter	mapScanVelocity (description="Nominal scanning velocity", quantity="arcsec s-1")
StringParameter	level (description="Product Level", quantity="arcsec s-1")

DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
Columns	
table dataset	(name="HPTCVERS", description="Generated from PacketSequence \$Revision: 1.1 \$")
Metadata	
StringParameter	revision (description="PacketSequence Revision from which this data was generated.")
Columns	
LongId	Time (description="Time [microseconds]", quantity="microseconds")
LongId	HD_SPARE_3 (description="HD_SPARE_3 [raw]", quantity="none")
LongId	HD_VERSION_NUMB (description="HD_VERSION_NUMB [raw]", quantity="none")
LongId	HD_LENGTH (description="HD_LENGTH [raw]", quantity="none")
LongId	HD_APID (description="HD_APID [raw]", quantity="none")
LongId	HD_SPARE_1 (description="HD_SPARE_1 [raw]", quantity="none")
DoubleId	HD_PACKET_TYPE (description="HD_PACKET_TYPE [raw]", quantity="none")
LongId	HD_SPARE_2 (description="HD_SPARE_2 [raw]", quantity="none")
LongId	HD_PUS_VERSION (description="HD_PUS_VERSION [raw]", quantity="none")
LongId	HD_SEG_FLAG (description="HD_SEG_FLAG [raw]", quantity="none")
DoubleId	HD_PCKT_SUBTYPE (description="HD_PCKT_SUBTYPE [raw]", quantity="none")
LongId	HD_SRC_SEQ_CTN (description="HD_SRC_SEQ_CTN [raw]", quantity="none")
LongId	HD_DATA_FLAG (description="HD_DATA_FLAG [raw]", quantity="none")
LongId	HD_TIME (description="HD_TIME [raw]", quantity="none")
LongId	HD_SOURCE_TYPE (description="HD_SOURCE_TYPE [raw]", quantity="none")
LongId	PCKT_SEQ_CONTR (description="PCKT_SEQ_CONTR [raw]", quantity="none")
LongId	TC_PACKET_TYPE (description="TC_PACKET_TYPE [raw]", quantity="none")
LongId	TC_PACKET_ID (description="TC_PACKET_ID [raw]", quantity="none")
LongId	TC_PCKT_SUBTYPE (description="TC_PCKT_SUBTYPE [raw]", quantity="none")
LongId	FIRST32BIT_TIME (description="FIRST32BIT_TIME [raw]", quantity="none")
DoubleId	LAST_16BIT_TIME (description="LAST_16BIT_TIME [eng, s]", quantity="none")

5.1.16. SPIRE Product Level 0 - HPGENHKS

<i>product (type="HPGENHKS", description="HPGENHKS")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfiguration (description="Mission Configuration")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")

DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="Observation Mode", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	debug (description="???", quantity="km s-1")
BooleanParameter	isBrightPacs (description="HSPOT: bright source for PACS (true/false)", quantity="km s-1")
BooleanParameter	isBrightSpire (description="HSPOT: bright source for SPIRE (true/false)", quantity="km s-1")
BooleanParameter	mapOrientationArray (description="HSPOT: The map orientation reference frame is 'array' (rather than array with sky constraints) true/false", quantity="km s-1")
BooleanParameter	pBool1 (description="???", quantity="km s-1")
BooleanParameter	pBool2 (description="???", quantity="km s-1")
DoubleParameter	mapOffsetY (description="HSPOT: offset to observation position from target in Y direction", quantity="arcmin")
DoubleParameter	mapOffsetZ (description="HSPOT: offset to observation position from target in Z direction", quantity="arcmin")
DoubleParameter	mapOrientationConFrom (description="HSPOT: Map orientation constraint lower limit", quantity="arcmin")
DoubleParameter	mapOrientationConTo (description="HSPOT: Map orientation constraint upper limit", quantity="arcmin")
DoubleParameter	mapSize1 (description="HSPOT: map length", quantity="arcmin")
DoubleParameter	mapSize2 (description="HSPOT: map height", quantity="arcmin")
DoubleParameter	pDouble1 (description="???", quantity="arcmin")
DoubleParameter	pDouble2 (description="???", quantity="arcmin")
LongParameter	pInt1 (description="???", quantity="arcmin")
LongParameter	pInt2 (description="???", quantity="arcmin")
StringParameter	blue (description="HSPOT: PACS blue filter selection (values blue1 or blue2)", quantity="arcmin")
StringParameter	bsmModel (description="???", quantity="arcmin")

StringParameter	bsmVersion (description="???", quantity="arcmin")
StringParameter	comVersion (description="???", quantity="arcmin")
StringParameter	flashVersion (description="???", quantity="arcmin")
StringParameter	mapScanRate (description="HSPOT: map scan rate (fast / slow)", quantity="arcmin")
StringParameter	opsVersion (description="???", quantity="arcmin")
StringParameter	pString1 (description="???", quantity="arcmin")
StringParameter	pString2 (description="???", quantity="arcmin")
StringParameter	photVersion (description="???", quantity="arcmin")
StringParameter	scanDirection (description="HSPOT: map scan direction (nominal / orthogonal)", quantity="arcmin")
StringParameter	spireVersion (description="???", quantity="arcmin")
DateParameter	odStartTime (description="Operational Day start time", quantity="arcmin")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="arcmin")
DoubleParameter	BOL_VD_B_1 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_1 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_2 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_2 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_3 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_3 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_4 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_4 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_R_1 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_R_1 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_R_2 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_R_2 (description="null", quantity="arcmin")
DoubleParameter	compVersion (description="null", quantity="arcmin")
DoubleParameter	algoNumber (description="null", quantity="arcmin")
StringParameter	algorithm (description="null", quantity="arcmin")
DoubleParameter	compNumber (description="null", quantity="arcmin")
StringParameter	compMode (description="null", quantity="arcmin")
DoubleParameter	mapScanVelocity (description="Nominal scanning velocity", quantity="arcsec s-1")
StringParameter	level (description="Product Level", quantity="arcsec s-1")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
<i>Columns</i>	
<i>table dataset</i>	(name="HPGENHKS", description="Generated from PacketSequence \$Revision: 1.1 \$")
<i>Metadata</i>	

StringParameter	revision (description="PacketSequence Revision from which this data was generated.")
Columns	
LongId	Time (description="Time [microseconds]", quantity="microseconds")
DoubleId	DM_CAL_SRC_TEMP (description="DM_CAL_SRC_TEMP [eng, K]", quantity="none")
StringId	DM_SEQ_ERR_NS (description="DM_SEQ_ERR_NS", quantity="none")
LongId	DM_DBR_ERROR (description="DM_DBR_ERROR [raw]", quantity="none")
StringId	DP_BUFFER_STAT (description="DP_BUFFER_STAT", quantity="none")
DoubleId	BOL_TEMP_TS (description="BOL_TEMP_TS [eng, K]", quantity="none")
StringId	DM_DRR_SENDING (description="DM_DRR_SENDING", quantity="none")
StringId	DM_DRC_LINK (description="DM_DRC_LINK", quantity="none")
LongId	DM_HKD_SPARE3 (description="DM_HKD_SPARE3 [raw]", quantity="none")
StringId	DM_DBR_LINK (description="DM_DBR_LINK", quantity="none")
StringId	DM_BPE_ERR_NS (description="DM_BPE_ERR_NS", quantity="none")
StringId	DP_EV_BOL_I_FPU (description="DP_EV_BOL_I_FPU", quantity="none")
StringId	DP_SPUL_CMD (description="DP_SPUL_CMD", quantity="none")
StringId	DM_DRR_ERR_NS (description="DM_DRR_ERR_NS", quantity="none")
LongId	DM_BLUE_PAC_ENC (description="DM_BLUE_PAC_ENC [raw]", quantity="none")
DoubleId	DM_SPU_VCC_CUR (description="DM_SPU_VCC_CUR [eng, A]", quantity="none")
LongId	DM_HK_CTRL_STAT (description="DM_HK_CTRL_STAT [raw]", quantity="none")
StringId	DP_EV_BOL_T_FPU (description="DP_EV_BOL_T_FPU", quantity="none")
LongId	DM_PM_DF_IND (description="DM_PM_DF_IND [raw]", quantity="none")
LongId	DM_HKCO_ERROR (description="DM_HKCO_ERROR [raw]", quantity="none")
LongId	DM_DPUS_SPARE4 (description="DM_DPUS_SPARE4 [raw]", quantity="none")
LongId	DM_HKD_SPARE1 (description="DM_HKD_SPARE1 [raw]", quantity="none")
LongId	DM_DPU_REC_STAT (description="DM_DPU_REC_STAT [raw]", quantity="none")
StringId	DP_OBCP_MANAGER (description="DP_OBCP_MANAGER", quantity="none")
LongId	HD_SPARE_3 (description="HD_SPARE_3 [raw]", quantity="none")

<i>StringId</i>	DM_BC_ERR_NS (description="DM_BC_ERR_NS", quantity="none")
<i>StringId</i>	DP_DEC_LINK (description="DP_DEC_LINK", quantity="none")
<i>LongId</i>	HD_VERSION_NUMB (description="HD_VERSION_NUMB [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_SP (description="BOL_TEMP_SP [eng, K]", quantity="none")
<i>StringId</i>	DP_SPUS_HK (description="DP_SPUS_HK", quantity="none")
<i>LongId</i>	DM_DBR_SPARE2 (description="DM_DBR_SPARE2 [raw]", quantity="none")
<i>LongId</i>	DM_HKCO_SPARE5 (description="DM_HKCO_SPARE5 [raw]", quantity="none")
<i>StringId</i>	DM_HKCO_TASK_AL (description="DM_HKCO_TASK_AL", quantity="none")
<i>LongId</i>	HD_SPARE_1 (description="HD_SPARE_1 [raw]", quantity="none")
<i>LongId</i>	HD_PACKET_TYPE (description="HD_PACKET_TYPE [raw]", quantity="none")
<i>LongId</i>	HD_SPARE_2 (description="HD_SPARE_2 [raw]", quantity="none")
<i>LongId</i>	SPS_VID (description="SPS_VID [raw]", quantity="none")
<i>LongId</i>	SPS_MEM_CNTS (description="SPS_MEM_CNTS [raw]", quantity="none")
<i>StringId</i>	DM_FPU_GR_TS_ST (description="DM_FPU_GR_TS_ST", quantity="none")
<i>StringId</i>	DM_BC_TASK_AL (description="DM_BC_TASK_AL", quantity="none")
<i>StringId</i>	DM_BC_LINK (description="DM_BC_LINK", quantity="none")
<i>LongId</i>	DM_BR_ERROR (description="DM_BR_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_FPU_FWP_TS_S (description="DM_FPU_FWP_TS_S", quantity="none")
<i>StringId</i>	DP_SPUS_CMD (description="DP_SPUS_CMD", quantity="none")
<i>DoubleId</i>	DM_DSP_TEMP (description="DM_DSP_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_BR_SIM_TIME (description="DM_BR_SIM_TIME", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_4 (description="BOL_TEMP_R_4 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_5 (description="BOL_TEMP_R_5 [eng, degC]", quantity="none")
<i>StringId</i>	SPS_DMC_ERROR (description="SPS_DMC_ERROR", quantity="none")
<i>StringId</i>	DP_SPUL_LINK (description="DP_SPUL_LINK", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_1 (description="BOL_TEMP_R_1 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_2 (description="BOL_TEMP_R_2 [eng, degC]", quantity="none")

<i>DoubleId</i>	BOL_TEMP_R_3 (description="BOL_TEMP_R_3 [eng, degC]", quantity="none")
<i>StringId</i>	DM_SW_ALIVE (description="DM_SW_ALIVE", quantity="none")
<i>StringId</i>	DM_SEQ_RUNNING (description="DM_SEQ_RUNNING", quantity="none")
<i>StringId</i>	DM_DPUR_TASK_AL (description="DM_DPUR_TASK_AL", quantity="none")
<i>DoubleId</i>	LAST_16BIT_TIME (description="LAST_16BIT_TIME [eng, s]", quantity="none")
<i>StringId</i>	DM_DRR_TASK_WR (description="DM_DRR_TASK_WR", quantity="none")
<i>DoubleId</i>	BOL_TEMP_B_3 (description="BOL_TEMP_B_3 [eng, degC]", quantity="none")
<i>StringId</i>	DM_DBR_TASK_AL (description="DM_DBR_TASK_AL", quantity="none")
<i>LongId</i>	DP_GEN_TM_LOST (description="DP_GEN_TM_LOST [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_B_2 (description="BOL_TEMP_B_2 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_B_1 (description="BOL_TEMP_B_1 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_DAQ (description="BOL_TEMP_DAQ [eng, degC]", quantity="none")
<i>StringId</i>	DP_TEST_MODE (description="DP_TEST_MODE", quantity="none")
<i>LongId</i>	DM_CHOP_CUR_POS (description="DM_CHOP_CUR_POS [raw]", quantity="none")
<i>StringId</i>	DM_RPE_TASK_AL (description="DM_RPE_TASK_AL", quantity="none")
<i>DoubleId</i>	DM_FW_PHOT_TEMP (description="DM_FW_PHOT_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DP_BLUE_SCIENCE (description="DP_BLUE_SCIENCE", quantity="none")
<i>StringId</i>	DP_UNIT (description="DP_UNIT", quantity="none")
<i>StringId</i>	DP_DMC_CMD (description="DP_DMC_CMD", quantity="none")
<i>LongId</i>	DM_TIME_2 (description="DM_TIME_2 [raw]", quantity="none")
<i>LongId</i>	DM_DRR_ERROR (description="DM_DRR_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_TIME_1 (description="DM_TIME_1 [raw]", quantity="none")
<i>LongId</i>	DP_SPUS_LINK_PE (description="DP_SPUS_LINK_PE [raw]", quantity="none")
<i>LongId</i>	DM_BR_SPARE2 (description="DM_BR_SPARE2 [raw]", quantity="none")
<i>LongId</i>	DM_PM_SF_IND (description="DM_PM_SF_IND [raw]", quantity="none")
<i>LongId</i>	DM_BPE_ERROR (description="DM_BPE_ERROR [raw]", quantity="none")

<i>DoubleId</i>	BOL_TEMP_EV (description="BOL_TEMP_EV [eng, K]", quantity="none")
<i>LongId</i>	DP_COM_SPL_PACK (description="DP_COM_SPL_PACK [raw]", quantity="none")
<i>StringId</i>	DM_DBC_LINK (description="DM_DBC_LINK", quantity="none")
<i>StringId</i>	DM_DPUS_ERR_NS (description="DM_DPUS_ERR_NS", quantity="none")
<i>StringId</i>	DM_FWPH_CUR_POS (description="DM_FWPH_CUR_POS", quantity="none")
<i>LongId</i>	DM_DPUS_ERROR (description="DM_DPUS_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_HKD_TASK_WR (description="DM_HKD_TASK_WR", quantity="none")
<i>StringId</i>	DP_STABLE_SPS (description="DP_STABLE_SPS", quantity="none")
<i>LongId</i>	DM_DECB_CTRL_PA (description="DM_DECB_CTRL_PA [raw]", quantity="none")
<i>LongId</i>	DM_BOL_READ_CNT (description="DM_BOL_READ_CNT [raw]", quantity="none")
<i>StringId</i>	DM_HKCO_ERR_NS (description="DM_HKCO_ERR_NS", quantity="none")
<i>LongId</i>	FIRST32BIT_TIME (description="FIRST32BIT_TIME [raw]", quantity="none")
<i>StringId</i>	DM_HKD_DIAGMODE (description="DM_HKD_DIAGMODE", quantity="none")
<i>StringId</i>	DP_1553_HANDLER (description="DP_1553_HANDLER", quantity="none")
<i>StringId</i>	DM_DRC_TASK_AL (description="DM_DRC_TASK_AL", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF12 (description="DM_LAST_ER_BF12 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF13 (description="DM_LAST_ER_BF13 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF14 (description="DM_LAST_ER_BF14 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF15 (description="DM_LAST_ER_BF15 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF10 (description="DM_LAST_ER_BF10 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF11 (description="DM_LAST_ER_BF11 [raw]", quantity="none")
<i>LongId</i>	DM_RPE_ERROR (description="DM_RPE_ERROR [raw]", quantity="none")
<i>DoubleId</i>	DM_PSC_V2 (description="DM_PSC_V2 [eng, mA]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF16 (description="DM_LAST_ER_BF16 [raw]", quantity="none")

<i>DoubleId</i>	DM_PSC_V1 (description="DM_PSC_V1 [eng, A]", quantity="none")
<i>DoubleId</i>	DM_PSC_V4 (description="DM_PSC_V4 [eng, A]", quantity="none")
<i>StringId</i>	DP_EEPROM_PROT (description="DP_EEPROM_PROT", quantity="none")
<i>DoubleId</i>	DM_PSC_V3 (description="DM_PSC_V3 [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_SPU_PS_TEMP (description="DM_SPU_PS_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_HKD_ERR_NS (description="DM_HKD_ERR_NS", quantity="none")
<i>LongId</i>	DP_COM_DMC (description="DP_COM_DMC [raw]", quantity="none")
<i>StringId</i>	DP_OBCP_RUN (description="DP_OBCP_RUN", quantity="none")
<i>StringId</i>	DP_IRQ3_TASK (description="DP_IRQ3_TASK", quantity="none")
<i>DoubleId</i>	DM_FPU_T2_TEMP (description="DM_FPU_T2_TEMP [eng, K]", quantity="none")
<i>DoubleId</i>	DM_REF_VOLT_0V (description="DM_REF_VOLT_0V [eng, V]", quantity="none")
<i>StringId</i>	DM_FPU_S1_TS_ST (description="DM_FPU_S1_TS_ST", quantity="none")
<i>LongId</i>	SID (description="SID [raw]", quantity="none")
<i>LongId</i>	SPS_PIX (description="SPS_PIX [raw]", quantity="none")
<i>DoubleId</i>	BOL_HEATER_FPU (description="BOL_HEATER_FPU [eng, A]", quantity="none")
<i>StringId</i>	DM_BPE_TASK_AL (description="DM_BPE_TASK_AL", quantity="none")
<i>StringId</i>	DM_FPU_CH_TS_ST (description="DM_FPU_CH_TS_ST", quantity="none")
<i>DoubleId</i>	DM_CPU_LOAD (description="DM_CPU_LOAD [eng, %]", quantity="none")
<i>LongId</i>	DM_BBID (description="DM_BBID [raw]", quantity="none")
<i>StringId</i>	DP_STABLE_SPL (description="DP_STABLE_SPL", quantity="none")
<i>StringId</i>	DM_DBR_ERR_NS (description="DM_DBR_ERR_NS", quantity="none")
<i>StringId</i>	DM_DPUR_ERR_NS (description="DM_DPUR_ERR_NS", quantity="none")
<i>StringId</i>	DM_FPU_FWS_TS_S (description="DM_FPU_FWS_TS_S", quantity="none")
<i>StringId</i>	SPS_DMC_LINK (description="SPS_DMC_LINK", quantity="none")
<i>DoubleId</i>	DM_FPU_T1_TEMP (description="DM_FPU_T1_TEMP [eng, K]", quantity="none")
<i>LongId</i>	SPL_VID (description="SPL_VID [raw]", quantity="none")
<i>LongId</i>	DM_BOL_CTRL_PAC (description="DM_BOL_CTRL_PAC [raw]", quantity="none")

<i>DoubleId</i>	BOL_HEAT_SP_SWT (description="BOL_HEAT_SP_SWT [eng, A]", quantity="none")
<i>LongId</i>	DP_COM_DMC_PACK (description="DP_COM_DMC_PACK [raw]", quantity="none")
<i>LongId</i>	DM_DECR_CTRL_PA (description="DM_DECR_CTRL_PA [raw]", quantity="none")
<i>LongId</i>	DM_BLUE_ENC_PAC (description="DM_BLUE_ENC_PAC [raw]", quantity="none")
<i>LongId</i>	DP_SPUL_LINK_DE (description="DP_SPUL_LINK_DE [raw]", quantity="none")
<i>DoubleId</i>	DM_SPU_VP_CUR (description="DM_SPU_VP_CUR [eng, mA]", quantity="none")
<i>LongId</i>	HD_APID (description="HD_APID [raw]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_2R (description="BOL_I_HEATER_2R [eng, A]", quantity="none")
<i>LongId</i>	DM_DRC_SPARE3 (description="DM_DRC_SPARE3 [raw]", quantity="none")
<i>LongId</i>	HD_SEG_FLAG (description="HD_SEG_FLAG [raw]", quantity="none")
<i>StringId</i>	DP_STABLE_DEC (description="DP_STABLE_DEC", quantity="none")
<i>LongId</i>	DM_BOL_STATUS (description="DM_BOL_STATUS [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ERR_ID (description="DM_LAST_ERR_ID [raw]", quantity="none")
<i>LongId</i>	DM_B_SPEC_READ (description="DM_B_SPEC_READ [raw]", quantity="none")
<i>LongId</i>	DM_RED_ENC_PAC (description="DM_RED_ENC_PAC [raw]", quantity="none")
<i>StringId</i>	DP_EV_DEC_SPC (description="DP_EV_DEC_SPC", quantity="none")
<i>DoubleId</i>	DM_SPU_VCC_VOL (description="DM_SPU_VCC_VOL [eng, V]", quantity="none")
<i>StringId</i>	DP_SPL_LINK (description="DP_SPL_LINK", quantity="none")
<i>LongId</i>	DM_IRS_CNT (description="DM_IRS_CNT [raw]", quantity="none")
<i>DoubleId</i>	DM_CHOPPER_TEMP (description="DM_CHOPPER_TEMP [eng, K]", quantity="none")
<i>StringId</i>	SPL_DMC_LINK (description="SPL_DMC_LINK", quantity="none")
<i>LongId</i>	DM_SW_SPARE5 (description="DM_SW_SPARE5 [raw]", quantity="none")
<i>LongId</i>	DP_COM_SPS_NACK (description="DP_COM_SPS_NACK [raw]", quantity="none")
<i>StringId</i>	DM_BR_TASK_WR (description="DM_BR_TASK_WR", quantity="none")
<i>LongId</i>	DM_BPE_SPARE4 (description="DM_BPE_SPARE4 [raw]", quantity="none")

<i>StringId</i>	DM_DBR_SENDING (description="DM_DBR_SENDING", quantity="none")
<i>LongId</i>	DP_DEC_LINK_PE (description="DP_DEC_LINK_PE [raw]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_1R (description="BOL_I_HEATER_1R [eng, A]", quantity="none")
<i>LongId</i>	DP_TC_LOST (description="DP_TC_LOST [raw]", quantity="none")
<i>StringId</i>	DP_RED_SCIENCE (description="DP_RED_SCIENCE", quantity="none")
<i>DoubleId</i>	SPS_CPUWORKLOAD (description="SPS_CPUWORKLOAD [eng, %]", quantity="none")
<i>StringId</i>	DM_DBC_TASK_WR (description="DM_DBC_TASK_WR", quantity="none")
<i>LongId</i>	DP_COM_SPUS (description="DP_COM_SPUS [raw]", quantity="none")
<i>LongId</i>	HD_SRC_SEQ_CTN (description="HD_SRC_SEQ_CTN [raw]", quantity="none")
<i>StringId</i>	DM_DPUR_TASK_WR (description="DM_DPUR_TASK_WR", quantity="none")
<i>LongId</i>	DP_COM_SPUL (description="DP_COM_SPUL [raw]", quantity="none")
<i>StringId</i>	DM_SEQ_TASK_AL (description="DM_SEQ_TASK_AL", quantity="none")
<i>DoubleId</i>	BOL_TEMP_SP_SWT (description="BOL_TEMP_SP_SWT [eng, K]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B2 (description="BOL_I_HEATER_B2 [eng, A]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B3 (description="BOL_I_HEATER_B3 [eng, A]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B4 (description="BOL_I_HEATER_B4 [eng, A]", quantity="none")
<i>StringId</i>	DM_RPE_LINK (description="DM_RPE_LINK", quantity="none")
<i>LongId</i>	DM_SEQ_STATUS (description="DM_SEQ_STATUS [raw]", quantity="none")
<i>LongId</i>	DM_DBC_SPARE3 (description="DM_DBC_SPARE3 [raw]", quantity="none")
<i>LongId</i>	DM_RPE_SPARE4 (description="DM_RPE_SPARE4 [raw]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B1 (description="BOL_I_HEATER_B1 [eng, A]", quantity="none")
<i>StringId</i>	DM_RPE_TASK_WR (description="DM_RPE_TASK_WR", quantity="none")
<i>StringId</i>	DP_WHICH_OBCP (description="DP_WHICH_OBCP", quantity="none")
<i>StringId</i>	DP_1553CHANNEL (description="DP_1553CHANNEL", quantity="none")
<i>LongId</i>	DM_DECB_CTRL_ST (description="DM_DECB_CTRL_ST [raw]", quantity="none")

<i>StringId</i>	DM_DBC_POWER (description="DM_DBC_POWER", quantity="none")
<i>LongId</i>	DP_COM_DMC_NACK (description="DP_COM_DMC_NACK [raw]", quantity="none")
<i>StringId</i>	DM_DRC_POWER (description="DM_DRC_POWER", quantity="none")
<i>StringId</i>	DP_COUNTER_SPS (description="DP_COUNTER_SPS", quantity="none")
<i>StringId</i>	DM_BR_TASK_AL (description="DM_BR_TASK_AL", quantity="none")
<i>LongId</i>	DM_DPUR_SPARE4 (description="DM_DPUR_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DP_SW_SUBVERS_ID (description="DP_SW_SUBVERS_ID [raw]", quantity="none")
<i>StringId</i>	DM_BPE_LINK (description="DM_BPE_LINK", quantity="none")
<i>LongId</i>	DP_COM_REC_DPU (description="DP_COM_REC_DPU [raw]", quantity="none")
<i>StringId</i>	DM_DPUS_TASK_WR (description="DM_DPUS_TASK_WR", quantity="none")
<i>StringId</i>	DM_DBC_TASK_AL (description="DM_DBC_TASK_AL", quantity="none")
<i>LongId</i>	DM_R_SPEC_READ (description="DM_R_SPEC_READ [raw]", quantity="none")
<i>LongId</i>	DM_DM_SF_IND (description="DM_DM_SF_IND [raw]", quantity="none")
<i>StringId</i>	DM_SEQ_IDLE (description="DM_SEQ_IDLE", quantity="none")
<i>LongId</i>	DM_RED_PAC_ENC (description="DM_RED_PAC_ENC [raw]", quantity="none")
<i>LongId</i>	DM_FPU_T_SEN_ST (description="DM_FPU_T_SEN_ST [raw]", quantity="none")
<i>StringId</i>	DM_HKD_TASK_AL (description="DM_HKD_TASK_AL", quantity="none")
<i>LongId</i>	DM_DECB_REC_STA (description="DM_DECB_REC_STA [raw]", quantity="none")
<i>LongId</i>	DM_BOL_CTRL_STA (description="DM_BOL_CTRL_STA [raw]", quantity="none")
<i>StringId</i>	DM_DRC_ERR_NS (description="DM_DRC_ERR_NS", quantity="none")
<i>DoubleId</i>	DM_REF_VOLT_5V (description="DM_REF_VOLT_5V [eng, V]", quantity="none")
<i>StringId</i>	DP_CONTROLLER (description="DP_CONTROLLER", quantity="none")
<i>LongId</i>	DM_DPU_SEN_STAT (description="DM_DPU_SEN_STAT [raw]", quantity="none")
<i>LongId</i>	DP_COM_SPL_NACK (description="DP_COM_SPL_NACK [raw]", quantity="none")
<i>LongId</i>	SPL_CI (description="SPL_CI [raw]", quantity="none")

<i>LongId</i>	HD_SOURCE_TYPE (description="HD_SOURCE_TYPE [raw]", quantity="none")
<i>DoubleId</i>	BOL_HEAT_EV_SWT (description="BOL_HEAT_EV_SWT [eng, A]", quantity="none")
<i>LongId</i>	DM_HKD_ERROR (description="DM_HKD_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_SW_GLOBAL_ST (description="DM_SW_GLOBAL_ST [raw]", quantity="none")
<i>StringId</i>	DM_BR_ERR_NS (description="DM_BR_ERR_NS", quantity="none")
<i>DoubleId</i>	DP_T (description="DP_T [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_PSU_2 (description="BOL_TEMP_PSU_2 [eng, degC]", quantity="none")
<i>LongId</i>	DM_DECB_REC_PAC (description="DM_DECB_REC_PAC [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_PSU_1 (description="BOL_TEMP_PSU_1 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_7 (description="BOL_PWR_ANA_P_7 [eng, V]", quantity="none")
<i>LongId</i>	DP_SPUL_LINK_PE (description="DP_SPUL_LINK_PE [raw]", quantity="none")
<i>StringId</i>	DP_BURST_MODE (description="DP_BURST_MODE", quantity="none")
<i>LongId</i>	DM_DPU_SEND_PAC (description="DM_DPU_SEND_PAC [raw]", quantity="none")
<i>StringId</i>	DM_FPU_S2_TS_ST (description="DM_FPU_S2_TS_ST", quantity="none")
<i>StringId</i>	DP_DMC_LINK (description="DP_DMC_LINK", quantity="none")
<i>LongId</i>	DM_VID (description="DM_VID [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF5 (description="DM_LAST_ER_BF5 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF6 (description="DM_LAST_ER_BF6 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF3 (description="DM_LAST_ER_BF3 [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_V_PWR (description="DP_EV_BOL_V_PWR", quantity="none")
<i>LongId</i>	SPL_PIX (description="SPL_PIX [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF4 (description="DM_LAST_ER_BF4 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF9 (description="DM_LAST_ER_BF9 [raw]", quantity="none")
<i>LongId</i>	DM_BOL_REC_STAT (description="DM_BOL_REC_STAT [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF7 (description="DM_LAST_ER_BF7 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF8 (description="DM_LAST_ER_BF8 [raw]", quantity="none")

<i>StringId</i>	DP_EV_BOL_I_SP2 (description="DP_EV_BOL_I_SP2", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF1 (description="DM_LAST_ER_BF1 [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_BIAS (description="DP_EV_BOL_BIAS", quantity="none")
<i>LongId</i>	DM_HK_DIAG_STAT (description="DM_HK_DIAG_STAT [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF2 (description="DM_LAST_ER_BF2 [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_SP1 (description="DP_EV_BOL_I_SP1", quantity="none")
<i>StringId</i>	DP_COUNTER_DEC (description="DP_COUNTER_DEC", quantity="none")
<i>LongId</i>	DP_STATUS (description="DP_STATUS [raw]", quantity="none")
<i>StringId</i>	DP_EVENT_DEC (description="DP_EVENT_DEC", quantity="none")
<i>LongId</i>	DM_DPUR_ERROR (description="DM_DPUR_ERROR [raw]", quantity="none")
<i>StringId</i>	DP_SPS_LINK (description="DP_SPS_LINK", quantity="none")
<i>LongId</i>	DP_COM_REJ_DPU (description="DP_COM_REJ_DPU [raw]", quantity="none")
<i>LongId</i>	DM_GRAT_CUR_POS (description="DM_GRAT_CUR_POS [raw]", quantity="none")
<i>LongId</i>	DM_DM_DF_IND (description="DM_DM_DF_IND [raw]", quantity="none")
<i>StringId</i>	DM_RPE_ERR_NS (description="DM_RPE_ERR_NS", quantity="none")
<i>LongId</i>	DM_OBSID (description="DM_OBSID [raw]", quantity="none")
<i>StringId</i>	DP_HK_MONITOR (description="DP_HK_MONITOR", quantity="none")
<i>LongId</i>	DM_DECR_REC_STA (description="DM_DECR_REC_STA [raw]", quantity="none")
<i>StringId</i>	DM_DBC_ERR_NS (description="DM_DBC_ERR_NS", quantity="none")
<i>DoubleId</i>	DM_SPU_PSU_P15V (description="DM_SPU_PSU_P15V [eng, V]", quantity="none")
<i>DoubleId</i>	DM_SPU_LWL_TEMP (description="DM_SPU_LWL_TEMP [eng, K]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_5 (description="DM_CUSTOM_ENT_5 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_4 (description="DM_CUSTOM_ENT_4 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_7 (description="DM_CUSTOM_ENT_7 [raw]", quantity="none")
<i>LongId</i>	DP_DEC_LINK_DE (description="DP_DEC_LINK_DE [raw]", quantity="none")

<i>LongId</i>	DM_CUSTOM_ENT_6 (description="DM_CUSTOM_ENT_6 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_9 (description="DM_CUSTOM_ENT_9 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_8 (description="DM_CUSTOM_ENT_8 [raw]", quantity="none")
<i>StringId</i>	DP_HK_CHK (description="DP_HK_CHK", quantity="none")
<i>LongId</i>	DM_DECR_CTRL_ST (description="DM_DECR_CTRL_ST [raw]", quantity="none")
<i>LongId</i>	HD_DATA_FLAG (description="HD_DATA_FLAG [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_1 (description="DM_CUSTOM_ENT_1 [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_T_WE (description="DP_EV_BOL_T_WE", quantity="none")
<i>StringId</i>	DM_DRC_TASK_WR (description="DM_DRC_TASK_WR", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_3 (description="DM_CUSTOM_ENT_3 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_2 (description="DM_CUSTOM_ENT_2 [raw]", quantity="none")
<i>StringId</i>	DM_DPUS_LINK (description="DM_DPUS_LINK", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_7 (description="BOL_PWR_DIG_7 [eng, V]", quantity="none")
<i>LongId</i>	DM_BC_SPARE4 (description="DM_BC_SPARE4 [raw]", quantity="none")
<i>StringId</i>	DM_DBR_SIM_TIME (description="DM_DBR_SIM_TIME", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_RO (description="DP_EV_BOL_I_RO", quantity="none")
<i>StringId</i>	DM_SW_COPY_OBS (description="DM_SW_COPY_OBS", quantity="none")
<i>StringId</i>	DM_SEQ_TASK_WR (description="DM_SEQ_TASK_WR", quantity="none")
<i>StringId</i>	DM_SW_ERR (description="DM_SW_ERR", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU_ST (description="BOL_TEMP_FPU_ST [eng, K]", quantity="none")
<i>StringId</i>	DM_FWSP_CUR_POS (description="DM_FWSP_CUR_POS", quantity="none")
<i>StringId</i>	DM_BR_SENDING (description="DM_BR_SENDING", quantity="none")
<i>StringId</i>	DP_EVENT_SPU (description="DP_EVENT_SPU", quantity="none")
<i>StringId</i>	DM_DPUS_TASK_AL (description="DM_DPUS_TASK_AL", quantity="none")
<i>StringId</i>	DM_DPUR_LINK (description="DM_DPUR_LINK", quantity="none")

<i>DoubleId</i>	DP_VOL_15P (description="DP_VOL_15P [eng, V]", quantity="none")
<i>StringId</i>	DM_FPU_CS_TS_ST (description="DM_FPU_CS_TS_ST", quantity="none")
<i>DoubleId</i>	DM_FW_SPEC_TEMP (description="DM_FW_SPEC_TEMP [eng, K]", quantity="none")
<i>DoubleId</i>	DP_VOL_15N (description="DP_VOL_15N [eng, V]", quantity="none")
<i>StringId</i>	DM_BR_LINK (description="DM_BR_LINK", quantity="none")
<i>StringId</i>	DM_HKCO_TASK_WR (description="DM_HKCO_TASK_WR", quantity="none")
<i>LongId</i>	SPS_CI (description="SPS_CI [raw]", quantity="none")
<i>StringId</i>	DM_DRR_TASK_AL (description="DM_DRR_TASK_AL", quantity="none")
<i>DoubleId</i>	DP_WORK_LOAD (description="DP_WORK_LOAD [eng, %]", quantity="none")
<i>LongId</i>	DP_HK_LOST (description="DP_HK_LOST [raw]", quantity="none")
<i>DoubleId</i>	DM_GRATING_TEMP (description="DM_GRATING_TEMP [eng, K]", quantity="none")
<i>LongId</i>	HD_LENGTH (description="HD_LENGTH [raw]", quantity="none")
<i>LongId</i>	DP_COM_SPS_PACK (description="DP_COM_SPS_PACK [raw]", quantity="none")
<i>LongId</i>	DP_1_8_REJECTED (description="DP_1_8_REJECTED [raw]", quantity="none")
<i>LongId</i>	DM_DRR_SPARE2 (description="DM_DRR_SPARE2 [raw]", quantity="none")
<i>LongId</i>	DM_SEQ_ERROR (description="DM_SEQ_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_DRC_ERROR (description="DM_DRC_ERROR [raw]", quantity="none")
<i>StringId</i>	DP_1355_LINK (description="DP_1355_LINK", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU1 (description="BOL_TEMP_FPU1 [eng, K]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU2 (description="BOL_TEMP_FPU2 [eng, K]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_EV_SWT (description="BOL_TEMP_EV_SWT [eng, K]", quantity="none")
<i>LongId</i>	HD_PCKT_SUBTYPE (description="HD_PCKT_SUBTYPE [raw]", quantity="none")
<i>LongId</i>	DM_DBC_ERROR (description="DM_DBC_ERROR [raw]", quantity="none")
<i>LongId</i>	DP_1_2_REJECTED (description="DP_1_2_REJECTED [raw]", quantity="none")
<i>StringId</i>	DM_BPE_TASK_WR (description="DM_BPE_TASK_WR", quantity="none")
<i>StringId</i>	DP_AF_24_SPARE (description="DP_AF_24_SPARE", quantity="none")

<i>LongId</i>	DM_SW_ERROR (description="DM_SW_ERROR [raw]", quantity="none")
<i>DoubleId</i>	DM_DCDC_TEMP (description="DM_DCDC_TEMP [eng, K]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT10 (description="DM_CUSTOM_ENT10 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_7 (description="BOL_PWR_ANA_N_7 [eng, V]", quantity="none")
<i>StringId</i>	DP_1355_HANDLER (description="DP_1355_HANDLER", quantity="none")
<i>StringId</i>	SPL_DMC_ERROR (description="SPL_DMC_ERROR", quantity="none")
<i>DoubleId</i>	DM_SPU_SWL_TEMP (description="DM_SPU_SWL_TEMP [eng, K]", quantity="none")
<i>LongId</i>	DM_HK_DIAG_PERI (description="DM_HK_DIAG_PERI [raw]", quantity="none")
<i>StringId</i>	DM_DRR_SIM_TIME (description="DM_DRR_SIM_TIME", quantity="none")
<i>LongId</i>	HD_PUS_VERSION (description="HD_PUS_VERSION [raw]", quantity="none")
<i>LongId</i>	DP_SPARE (description="DP_SPARE [raw]", quantity="none")
<i>LongId</i>	DP_SW_VERS_ID (description="DP_SW_VERS_ID [raw]", quantity="none")
<i>StringId</i>	DP_SPUL_HK (description="DP_SPUL_HK", quantity="none")
<i>LongId</i>	DM_BOL_REC_PAC (description="DM_BOL_REC_PAC [raw]", quantity="none")
<i>StringId</i>	DP_COUNTER_SPEC (description="DP_COUNTER_SPEC", quantity="none")
<i>DoubleId</i>	DP_VOL_25P (description="DP_VOL_25P [eng, V]", quantity="none")
<i>LongId</i>	DP_EVENT_LOST (description="DP_EVENT_LOST [raw]", quantity="none")
<i>StringId</i>	DM_DRR_LINK (description="DM_DRR_LINK", quantity="none")
<i>DoubleId</i>	SPL_CPUWORKLOAD (description="SPL_CPUWORKLOAD [eng, %]", quantity="none")
<i>StringId</i>	DM_DBR_TASK_WR (description="DM_DBR_TASK_WR", quantity="none")
<i>StringId</i>	DP_SPUS_LINK (description="DP_SPUS_LINK", quantity="none")
<i>StringId</i>	DP_EVENT_DPU (description="DP_EVENT_DPU", quantity="none")
<i>LongId</i>	DM_SEQ_SPARE2 (description="DM_SEQ_SPARE2 [raw]", quantity="none")
<i>DoubleId</i>	DP_VOL_5P (description="DP_VOL_5P [eng, V]", quantity="none")
<i>LongId</i>	DM_DPU_REC_PAC (description="DM_DPU_REC_PAC [raw]", quantity="none")
<i>StringId</i>	DP_COUNTER_SPL (description="DP_COUNTER_SPL", quantity="none")

<i>LongId</i>	DM_SEQ_SPARE1 (description="DM_SEQ_SPARE1 [raw]", quantity="none")
<i>StringId</i>	DM_BC_TASK_WR (description="DM_BC_TASK_WR", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_HEA (description="DP_EV_BOL_I_HEA", quantity="none")
<i>StringId</i>	DP_INIT (description="DP_INIT", quantity="none")
<i>LongId</i>	SPL_MEM_CNTS (description="SPL_MEM_CNTS [raw]", quantity="none")
<i>DoubleId</i>	BOL_HEATER_SP (description="BOL_HEATER_SP [eng, A]", quantity="none")
<i>StringId</i>	DP_COUNTER_PHOT (description="DP_COUNTER_PHOT", quantity="none")
<i>LongId</i>	DP_AF_STATUS (description="DP_AF_STATUS [raw]", quantity="none")
<i>LongId</i>	DM_DECR_REC_PAC (description="DM_DECR_REC_PAC [raw]", quantity="none")
<i>LongId</i>	DP_SPUS_LINK_DE (description="DP_SPUS_LINK_DE [raw]", quantity="none")
<i>StringId</i>	DP_TM_RATE (description="DP_TM_RATE", quantity="none")
<i>StringId</i>	DP_DMC_HK (description="DP_DMC_HK", quantity="none")
<i>LongId</i>	DM_BC_ERROR (description="DM_BC_ERROR [raw]", quantity="none")

5.1.17. SPIRE Product Level 0 - Averaged Data Photometer blue

<i>product (type="HPPAVGBS", description="Averaged Data Photometer blue")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
DoubleParameter	Apid (description="Application Programme Identifier")

DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
DoubleParameter	wavelength (description="Filter reference wavelength", quantity="micrometer")
LongParameter	phot_red_FailedSPUBuffer (description="null", quantity="micrometer")
LongParameter	phot_blue_FailedSPUBuffer (description="null", quantity="micrometer")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="micrometer")
LongParameter	RemovedSetTime (description="Number of removed Frames due to setTime command", quantity="micrometer")
StringParameter	level (description="Product Level", quantity="micrometer")
LongParameter	obsid (description="Observation Identifier", quantity="micrometer")
LongParameter	obsType (description="Observation type", quantity="micrometer")
LongParameter	obsCount (description="Observation counter", quantity="micrometer")
StringParameter	camera (description="Camera", quantity="micrometer")
LongParameter	odNumber (description="Operational Day Number count", quantity="micrometer")
StringParameter	cusMode (description="line or range spectroscopy", quantity="micrometer")
StringParameter	instMode (description="Instrument Mode", quantity="micrometer")
StringParameter	obsMode (description="Observation mode name", quantity="micrometer")
StringParameter	processingMode (description="SPG pipeline processing mode selected", quantity="micrometer")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT", quantity="micrometer")
StringParameter	observer (description="Observer name", quantity="micrometer")
StringParameter	proposal (description="Proposal name", quantity="micrometer")
StringParameter	pointingMode (description="Pointing mode", quantity="micrometer")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="micrometer")
StringParameter	origin (description="Site that created the product", quantity="micrometer")
StringParameter	aorLabel (description="AOR Label as entered in HSpot", quantity="micrometer")
StringParameter	aot (description="AOT Identifier", quantity="micrometer")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="micrometer")
StringParameter	missionConfig (description="Mission configuration", quantity="micrometer")
StringParameter	object (description="Target name", quantity="micrometer")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="micrometer")

DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="Observation Mode", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	debug (description="???", quantity="km s-1")
BooleanParameter	isBrightPacs (description="HSPOT: bright source for PACS (true/false)", quantity="km s-1")
BooleanParameter	isBrightSpire (description="HSPOT: bright source for SPIRE (true/false)", quantity="km s-1")
BooleanParameter	mapOrientationArray (description="HSPOT: The map orientation reference frame is 'array' (rather than array with sky constraints) true/false", quantity="km s-1")
BooleanParameter	pBool1 (description="???", quantity="km s-1")
BooleanParameter	pBool2 (description="???", quantity="km s-1")
DoubleParameter	mapOffsetY (description="HSPOT: offset to observation position from target in Y direction", quantity="arcmin")
DoubleParameter	mapOffsetZ (description="HSPOT: offset to observation position from target in Z direction", quantity="arcmin")
DoubleParameter	mapOrientationConFrom (description="HSPOT: Map orientation constraint lower limit", quantity="arcmin")
DoubleParameter	mapOrientationConTo (description="HSPOT: Map orientation constraint upper limit", quantity="arcmin")
DoubleParameter	mapSize1 (description="HSPOT: map length", quantity="arcmin")

DoubleParameter	mapSize2 (description="HSPOT: map height", quantity="arcmin")
DoubleParameter	pDouble1 (description="???", quantity="arcmin")
DoubleParameter	pDouble2 (description="???", quantity="arcmin")
LongParameter	pInt1 (description="???", quantity="arcmin")
LongParameter	pInt2 (description="???", quantity="arcmin")
StringParameter	blue (description="HSPOT: PACS blue filter selection (values blue1 or blue2)", quantity="arcmin")
StringParameter	bsmModel (description="???", quantity="arcmin")
StringParameter	bsmVersion (description="???", quantity="arcmin")
StringParameter	comVersion (description="???", quantity="arcmin")
StringParameter	flashVersion (description="???", quantity="arcmin")
StringParameter	mapScanRate (description="HSPOT: map scan rate (fast / slow)", quantity="arcmin")
StringParameter	opsVersion (description="???", quantity="arcmin")
StringParameter	pString1 (description="???", quantity="arcmin")
StringParameter	pString2 (description="???", quantity="arcmin")
StringParameter	photVersion (description="???", quantity="arcmin")
StringParameter	scanDirection (description="HSPOT: map scan direction (nominal / orthogonal)", quantity="arcmin")
StringParameter	spireVersion (description="???", quantity="arcmin")
DateParameter	odStartTime (description="Operational Day start time", quantity="arcmin")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="arcmin")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="arcmin")
DoubleParameter	BOL_VD_B_1 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_1 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_2 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_2 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_3 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_3 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_4 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_4 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_R_1 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_R_1 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_R_2 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_R_2 (description="null", quantity="arcmin")
DoubleParameter	mapScanVelocity (description="Nominal scanning velocity", quantity="arcsec s ⁻¹ ")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")

<i>Columns</i>	
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double3d</i>	(description="null", quantity="none")

5.1.18. SPIRE Product Level 0 - Averaged Data Photometer red

<i>product (type="HPPAVGRS", description="Averaged Data Photometer red")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
DoubleParameter	Apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
DoubleParameter	wavelength (description="Filter reference wavelength", quantity="micrometer")
LongParameter	phot_red_FailedSPUBuffer (description="null", quantity="micrometer")
LongParameter	phot_blue_FailedSPUBuffer (description="null", quantity="micrometer")
BooleanParameter	pacsSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="micrometer")
LongParameter	RemovedSetTime (description="Number of removed Frames due to setTime command", quantity="micrometer")

StringParameter	level (description="Product Level", quantity="micrometer")
LongParameter	obsid (description="Observation Identifier", quantity="micrometer")
LongParameter	obsType (description="Observation type", quantity="micrometer")
LongParameter	obsCount (description="Observation counter", quantity="micrometer")
StringParameter	camera (description="Camera", quantity="micrometer")
LongParameter	odNumber (description="Operational Day Number count", quantity="micrometer")
StringParameter	cusMode (description="line or range spectroscopy", quantity="micrometer")
StringParameter	instMode (description="Instrument Mode", quantity="micrometer")
StringParameter	obsMode (description="Observation mode name", quantity="micrometer")
StringParameter	processingMode (description="SPG pipeline processing mode selected", quantity="micrometer")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT", quantity="micrometer")
StringParameter	observer (description="Observer name", quantity="micrometer")
StringParameter	proposal (description="Proposal name", quantity="micrometer")
StringParameter	pointingMode (description="Pointing mode", quantity="micrometer")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="micrometer")
StringParameter	origin (description="Site that created the product", quantity="micrometer")
StringParameter	aorLabel (description="AOR Label as entered in HSpot", quantity="micrometer")
StringParameter	aot (description="AOT Identifier", quantity="micrometer")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="micrometer")
StringParameter	missionConfig (description="Mission configuration", quantity="micrometer")
StringParameter	object (description="Target name", quantity="micrometer")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="micrometer")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")

LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="Observation Mode", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	debug (description="???", quantity="km s-1")
BooleanParameter	isBrightPacs (description="HSPOT: bright source for PACS (true/false)", quantity="km s-1")
BooleanParameter	isBrightSpire (description="HSPOT: bright source for SPIRE (true/false)", quantity="km s-1")
BooleanParameter	mapOrientationArray (description="HSPOT: The map orientation reference frame is 'array' (rather than array with sky constraints) true/false", quantity="km s-1")
BooleanParameter	pBool1 (description="???", quantity="km s-1")
BooleanParameter	pBool2 (description="???", quantity="km s-1")
DoubleParameter	mapOffsetY (description="HSPOT: offset to observation position from target in Y direction", quantity="arcmin")
DoubleParameter	mapOffsetZ (description="HSPOT: offset to observation position from target in Z direction", quantity="arcmin")
DoubleParameter	mapOrientationConFrom (description="HSPOT: Map orientation constraint lower limit", quantity="arcmin")
DoubleParameter	mapOrientationConTo (description="HSPOT: Map orientation constraint upper limit", quantity="arcmin")
DoubleParameter	mapSize1 (description="HSPOT: map length", quantity="arcmin")
DoubleParameter	mapSize2 (description="HSPOT: map height", quantity="arcmin")
DoubleParameter	pDouble1 (description="???", quantity="arcmin")
DoubleParameter	pDouble2 (description="???", quantity="arcmin")
LongParameter	pInt1 (description="???", quantity="arcmin")
LongParameter	pInt2 (description="???", quantity="arcmin")
StringParameter	blue (description="HSPOT: PACS blue filter selection (values blue1 or blue2)", quantity="arcmin")
StringParameter	bsmModel (description="???", quantity="arcmin")
StringParameter	bsmVersion (description="???", quantity="arcmin")
StringParameter	comVersion (description="???", quantity="arcmin")
StringParameter	flashVersion (description="???", quantity="arcmin")
StringParameter	mapScanRate (description="HSPOT: map scan rate (fast / slow)", quantity="arcmin")
StringParameter	opsVersion (description="???", quantity="arcmin")
StringParameter	pString1 (description="???", quantity="arcmin")

StringParameter	pString2 (description="???", quantity="arcmin")
StringParameter	photVersion (description="???", quantity="arcmin")
StringParameter	scanDirection (description="HSPOT: map scan direction (nominal / orthogonal)", quantity="arcmin")
StringParameter	spireVersion (description="???", quantity="arcmin")
DateParameter	odStartTime (description="Operational Day start time", quantity="arcmin")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="arcmin")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="arcmin")
DoubleParameter	BOL_VD_B_1 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_1 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_2 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_2 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_3 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_3 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_4 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_4 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_R_1 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_R_1 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_R_2 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_R_2 (description="null", quantity="arcmin")
DoubleParameter	mapScanVelocity (description="Nominal scanning velocity", quantity="arcsec s-1")
LongParameter	sliceNumber (description="Slice number", quantity="arcsec s-1")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
<i>Columns</i>	
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double3d</i>	(description="null", quantity="none")

5.1.19. SPIRE Product Level 0 - DecMec Data Photometer blue

<i>product (type="HPPDMCBS", description="DecMec Data Photometer blue")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")

DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
StringParameter	level (description="Product Level")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")

StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="Observation Mode", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	debug (description="???", quantity="km s-1")
BooleanParameter	isBrightPacs (description="HSPOT: bright source for PACS (true/false)", quantity="km s-1")
BooleanParameter	isBrightSpire (description="HSPOT: bright source for SPIRE (true/false)", quantity="km s-1")
BooleanParameter	mapOrientationArray (description="HSPOT: The map orientation reference frame is 'array' (rather than array with sky constraints) true/false", quantity="km s-1")
BooleanParameter	pBool1 (description="???", quantity="km s-1")
BooleanParameter	pBool2 (description="???", quantity="km s-1")
DoubleParameter	mapOffsetY (description="HSPOT: offset to observation position from target in Y direction", quantity="arcmin")
DoubleParameter	mapOffsetZ (description="HSPOT: offset to observation position from target in Z direction", quantity="arcmin")
DoubleParameter	mapOrientationConFrom (description="HSPOT: Map orientation constraint lower limit", quantity="arcmin")
DoubleParameter	mapOrientationConTo (description="HSPOT: Map orientation constraint upper limit", quantity="arcmin")
DoubleParameter	mapSize1 (description="HSPOT: map length", quantity="arcmin")
DoubleParameter	mapSize2 (description="HSPOT: map height", quantity="arcmin")
DoubleParameter	pDouble1 (description="???", quantity="arcmin")
DoubleParameter	pDouble2 (description="???", quantity="arcmin")
LongParameter	pInt1 (description="???", quantity="arcmin")
LongParameter	pInt2 (description="???", quantity="arcmin")
StringParameter	blue (description="HSPOT: PACS blue filter selection (values blue1 or blue2)", quantity="arcmin")
StringParameter	bsmModel (description="???", quantity="arcmin")
StringParameter	bsmVersion (description="???", quantity="arcmin")
StringParameter	comVersion (description="???", quantity="arcmin")

StringParameter	flashVersion (description="???", quantity="arcmin")
StringParameter	mapScanRate (description="HSPOT: map scan rate (fast / slow)", quantity="arcmin")
StringParameter	opsVersion (description="???", quantity="arcmin")
StringParameter	pString1 (description="???", quantity="arcmin")
StringParameter	pString2 (description="???", quantity="arcmin")
StringParameter	photVersion (description="???", quantity="arcmin")
StringParameter	scanDirection (description="HSPOT: map scan direction (nominal / orthogonal)", quantity="arcmin")
StringParameter	spireVersion (description="???", quantity="arcmin")
DateParameter	odStartTime (description="Operational Day start time", quantity="arcmin")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="arcmin")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="arcmin")
DoubleParameter	BOL_VD_B_1 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_1 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_2 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_2 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_3 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_3 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_4 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_4 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_R_1 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_R_1 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_R_2 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_R_2 (description="null", quantity="arcmin")
DoubleParameter	compVersion (description="null", quantity="arcmin")
DoubleParameter	algoNumber (description="null", quantity="arcmin")
StringParameter	algorithm (description="null", quantity="arcmin")
DoubleParameter	compNumber (description="null", quantity="arcmin")
StringParameter	compMode (description="null", quantity="arcmin")
DoubleParameter	mapScanVelocity (description="Nominal scanning velocity", quantity="arc-sec s-1")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
<i>Columns</i>	
<i>table dataset</i>	(name="DmcHeader", description="Status")
<i>Metadata</i>	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
LongParameter	DIM2 (description="Number of measures per status parameter")

<i>Columns</i>	
<i>Int1d</i>	RESETINDEX (description="Indicates the reset index of the status parameters", quantity="none")
<i>Int1d</i>	OBSID (description="Identifier of the observation", quantity="none")
<i>Int1d</i>	BBID (description="Building block type", quantity="none")
<i>Int2d</i>	LBL (description="Label", quantity="none")
<i>Int2d</i>	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
<i>Int2d</i>	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
<i>Long2d</i>	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
<i>Int2d</i>	VLD (description="Validity flag set by DecMec", quantity="none")
<i>Int2d</i>	CPR (description="Chopper position", quantity="none")
<i>Int2d</i>	WPR (description="Filter wheel Position", quantity="none")
<i>Int2d</i>	BOLST (description="BOL-C status", quantity="none")
<i>Int2d</i>	CRDC (description="OBT clock tick counter since last time reset", quantity="none")
<i>Int2d</i>	CRDCCP (description="OBT clock tick counter in current chopper plateau", quantity="none")
<i>Int2d</i>	DBID (description="Data Block ID", quantity="none")
<i>Int2d</i>	BSID (description="Bolometer Setup Identification", quantity="none")
<i>Int1d</i>	NrReadouts (description="Number of readouts per Buffer", quantity="none")

5.1.20. SPIRE Product Level 0 - DecMec Data Photometer red

<i>product (type="HPPDMCRS", description="DecMec Data Photometer red")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
StringParameter	level (description="Product Level")

LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
StringParameter	camera (description="Camera")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")
StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")

StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="Observation Mode", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	debug (description="???", quantity="km s-1")
BooleanParameter	isBrightPacs (description="HSPOT: bright source for PACS (true/false)", quantity="km s-1")
BooleanParameter	isBrightSpire (description="HSPOT: bright source for SPIRE (true/false)", quantity="km s-1")
BooleanParameter	mapOrientationArray (description="HSPOT: The map orientation reference frame is 'array' (rather than array with sky constraints) true/false", quantity="km s-1")
BooleanParameter	pBool1 (description="???", quantity="km s-1")
BooleanParameter	pBool2 (description="???", quantity="km s-1")
DoubleParameter	mapOffsetY (description="HSPOT: offset to observation position from target in Y direction", quantity="arcmin")
DoubleParameter	mapOffsetZ (description="HSPOT: offset to observation position from target in Z direction", quantity="arcmin")
DoubleParameter	mapOrientationConFrom (description="HSPOT: Map orientation constraint lower limit", quantity="arcmin")
DoubleParameter	mapOrientationConTo (description="HSPOT: Map orientation constraint upper limit", quantity="arcmin")
DoubleParameter	mapSize1 (description="HSPOT: map length", quantity="arcmin")
DoubleParameter	mapSize2 (description="HSPOT: map height", quantity="arcmin")
DoubleParameter	pDouble1 (description="???", quantity="arcmin")
DoubleParameter	pDouble2 (description="???", quantity="arcmin")
LongParameter	pInt1 (description="???", quantity="arcmin")
LongParameter	pInt2 (description="???", quantity="arcmin")
StringParameter	blue (description="HSPOT: PACS blue filter selection (values blue1 or blue2)", quantity="arcmin")
StringParameter	bsmModel (description="???", quantity="arcmin")
StringParameter	bsmVersion (description="???", quantity="arcmin")
StringParameter	comVersion (description="???", quantity="arcmin")
StringParameter	flashVersion (description="???", quantity="arcmin")
StringParameter	mapScanRate (description="HSPOT: map scan rate (fast / slow)", quantity="arcmin")
StringParameter	opsVersion (description="???", quantity="arcmin")
StringParameter	pString1 (description="???", quantity="arcmin")
StringParameter	pString2 (description="???", quantity="arcmin")
StringParameter	photVersion (description="???", quantity="arcmin")
StringParameter	scanDirection (description="HSPOT: map scan direction (nominal / orthogonal)", quantity="arcmin")
StringParameter	spireVersion (description="???", quantity="arcmin")
DateParameter	odStartTime (description="Operational Day start time", quantity="arcmin")

StringParameter	missionConfiguration (description="Mission Configuration", quantity="arcmin")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="arcmin")
DoubleParameter	BOL_VD_B_1 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_1 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_2 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_2 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_3 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_3 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_4 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_4 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_R_1 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_R_1 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_R_2 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_R_2 (description="null", quantity="arcmin")
DoubleParameter	compVersion (description="null", quantity="arcmin")
DoubleParameter	algoNumber (description="null", quantity="arcmin")
StringParameter	algorithm (description="null", quantity="arcmin")
DoubleParameter	compNumber (description="null", quantity="arcmin")
StringParameter	compMode (description="null", quantity="arcmin")
DoubleParameter	mapScanVelocity (description="Nominal scanning velocity", quantity="arcsec s-1")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
<i>Columns</i>	
<i>table dataset</i>	(name="DmcHeader", description="Status")
<i>Metadata</i>	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
LongParameter	DIM2 (description="Number of measures per status parameter")
<i>Columns</i>	
<i>Int1d</i>	RESETINDEX (description="Indicates the reset index of the status parameters", quantity="none")
<i>Int1d</i>	OBSID (description="Identifier of the observation", quantity="none")
<i>Int1d</i>	BBID (description="Building block type", quantity="none")
<i>Int2d</i>	LBL (description="Label", quantity="none")
<i>Int2d</i>	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
<i>Int2d</i>	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")

<i>Long2d</i>	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
<i>Int2d</i>	VLD (description="Validity flag set by DecMec", quantity="none")
<i>Int2d</i>	CPR (description="Chopper position", quantity="none")
<i>Int2d</i>	WPR (description="Filter wheel Position", quantity="none")
<i>Int2d</i>	BOLST (description="BOL-C status", quantity="none")
<i>Int2d</i>	CRDC (description="OBT clock tick counter since last time reset", quantity="none")
<i>Int2d</i>	CRDCCP (description="OBT clock tick counter in current chopper plateau", quantity="none")
<i>Int2d</i>	DBID (description="Data Block ID", quantity="none")
<i>Int2d</i>	BSID (description="Bolometer Setup Identification", quantity="none")
<i>Int1d</i>	NrReadouts (description="Number of readouts per Buffer", quantity="none")

5.1.21. SPIRE Product Level 0 - HPPHKS

<i>product (type="HPPHKS", description="HPPHKS")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfiguration (description="Mission Configuration")
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsType (description="Observation type")
LongParameter	obsCount (description="Observation counter")
LongParameter	odNumber (description="Operational Day Number count")
StringParameter	cusMode (description="line or range spectroscopy")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	processingMode (description="SPG pipeline processing mode selected")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
StringParameter	pointingMode (description="Pointing mode")
DateParameter	slewTime (description="Scheduled start time of the slew")

StringParameter	origin (description="Site that created the product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	object (description="Target name")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="Observation Mode", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	debug (description="???", quantity="km s-1")
BooleanParameter	isBrightPacs (description="HSPOT: bright source for PACS (true/false)", quantity="km s-1")
BooleanParameter	isBrightSpire (description="HSPOT: bright source for SPIRE (true/false)", quantity="km s-1")
BooleanParameter	mapOrientationArray (description="HSPOT: The map orientation reference frame is 'array' (rather than array with sky constraints) true/false", quantity="km s-1")
BooleanParameter	pBool1 (description="???", quantity="km s-1")
BooleanParameter	pBool2 (description="???", quantity="km s-1")

DoubleParameter	mapOffsetY (description="HSPOT: offset to observation position from target in Y direction", quantity="arcmin")
DoubleParameter	mapOffsetZ (description="HSPOT: offset to observation position from target in Z direction", quantity="arcmin")
DoubleParameter	mapOrientationConFrom (description="HSPOT: Map orientation constraint lower limit", quantity="arcmin")
DoubleParameter	mapOrientationConTo (description="HSPOT: Map orientation constraint upper limit", quantity="arcmin")
DoubleParameter	mapSize1 (description="HSPOT: map length", quantity="arcmin")
DoubleParameter	mapSize2 (description="HSPOT: map height", quantity="arcmin")
DoubleParameter	pDouble1 (description="???", quantity="arcmin")
DoubleParameter	pDouble2 (description="???", quantity="arcmin")
LongParameter	pInt1 (description="???", quantity="arcmin")
LongParameter	pInt2 (description="???", quantity="arcmin")
StringParameter	blue (description="HSPOT: PACS blue filter selection (values blue1 or blue2)", quantity="arcmin")
StringParameter	bsmModel (description="???", quantity="arcmin")
StringParameter	bsmVersion (description="???", quantity="arcmin")
StringParameter	comVersion (description="???", quantity="arcmin")
StringParameter	flashVersion (description="???", quantity="arcmin")
StringParameter	mapScanRate (description="HSPOT: map scan rate (fast / slow)", quantity="arcmin")
StringParameter	opsVersion (description="???", quantity="arcmin")
StringParameter	pString1 (description="???", quantity="arcmin")
StringParameter	pString2 (description="???", quantity="arcmin")
StringParameter	photVersion (description="???", quantity="arcmin")
StringParameter	scanDirection (description="HSPOT: map scan direction (nominal / orthogonal)", quantity="arcmin")
StringParameter	spireVersion (description="???", quantity="arcmin")
DateParameter	odStartTime (description="Operational Day start time", quantity="arcmin")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="arcmin")
DoubleParameter	BOL_VD_B_1 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_1 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_2 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_2 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_3 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_3 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_4 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_4 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_R_1 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_R_1 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_R_2 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_R_2 (description="null", quantity="arcmin")

DoubleParameter	compVersion (description="null", quantity="arcmin")
DoubleParameter	algoNumber (description="null", quantity="arcmin")
StringParameter	algorithm (description="null", quantity="arcmin")
DoubleParameter	compNumber (description="null", quantity="arcmin")
StringParameter	compMode (description="null", quantity="arcmin")
DoubleParameter	mapScanVelocity (description="Nominal scanning velocity", quantity="arc-sec s-1")
StringParameter	level (description="Product Level", quantity="arcsec s-1")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
Columns	
table dataset	(name="HPPHKS", description="Generated from PacketSequence \$Revision: 1.1 \$")
Metadata	
StringParameter	revision (description="PacketSequence Revision from which this data was generated.")
Columns	
LongId	Time (description="Time [microseconds]", quantity="microseconds")
StringId	DM_SEQ_ERR_NS (description="DM_SEQ_ERR_NS", quantity="none")
StringId	DM_CS1C_COMMUT (description="DM_CS1C_COMMUT", quantity="none")
LongId	DM_FW_SPEC_CTRL (description="DM_FW_SPEC_CTRL [raw]", quantity="none")
LongId	DM_DBR_ERROR (description="DM_DBR_ERROR [raw]", quantity="none")
StringId	DP_BUFFER_STAT (description="DP_BUFFER_STAT", quantity="none")
DoubleId	BOL_TEMP_TS (description="BOL_TEMP_TS [eng, K]", quantity="none")
LongId	DM_HKD_SPARE3 (description="DM_HKD_SPARE3 [raw]", quantity="none")
StringId	DM_DBR_LINK (description="DM_DBR_LINK", quantity="none")
StringId	DM_BPE_ERR_NS (description="DM_BPE_ERR_NS", quantity="none")
StringId	DP_EV_BOL_I_FPU (description="DP_EV_BOL_I_FPU", quantity="none")
StringId	DM_DRR_ERR_NS (description="DM_DRR_ERR_NS", quantity="none")
DoubleId	BOL_CKTRIL_R_B2 (description="BOL_CKTRIL_R_B2 [eng, V]", quantity="none")
DoubleId	DM_SPU_VCC_CUR (description="DM_SPU_VCC_CUR [eng, A]", quantity="none")
DoubleId	BOL_CKTRIL_R_B1 (description="BOL_CKTRIL_R_B1 [eng, V]", quantity="none")

<i>DoubleId</i>	BOL_CKTRIL_R_B4 (description="BOL_CKTRIL_R_B4 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_CKTRIL_R_B3 (description="BOL_CKTRIL_R_B3 [eng, V]", quantity="none")
<i>LongId</i>	DM_DPUS_SPARE4 (description="DM_DPUS_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DM_HKD_SPARE1 (description="DM_HKD_SPARE1 [raw]", quantity="none")
<i>StringId</i>	DM_CC_SYNCHRO (description="DM_CC_SYNCHRO", quantity="none")
<i>LongId</i>	DM_DET_SIM_PER (description="DM_DET_SIM_PER [raw]", quantity="none")
<i>StringId</i>	DM_BC_ERR_NS (description="DM_BC_ERR_NS", quantity="none")
<i>StringId</i>	DM_GC_POWER (description="DM_GC_POWER", quantity="none")
<i>DoubleId</i>	BOL_VH_R_2 (description="BOL_VH_R_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_SP (description="BOL_TEMP_SP [eng, K]", quantity="none")
<i>StringId</i>	DP_SPUS_HK (description="DP_SPUS_HK", quantity="none")
<i>StringId</i>	DM_CC_POWER (description="DM_CC_POWER", quantity="none")
<i>DoubleId</i>	BOL_VH_R_1 (description="BOL_VH_R_1 [eng, V]", quantity="none")
<i>StringId</i>	DM_HKCO_TASK_AL (description="DM_HKCO_TASK_AL", quantity="none")
<i>LongId</i>	HD_PACKET_TYPE (description="HD_PACKET_TYPE [raw]", quantity="none")
<i>LongId</i>	SPS_MEM_CNTS (description="SPS_MEM_CNTS [raw]", quantity="none")
<i>DoubleId</i>	BOL_VH_B_4 (description="BOL_VH_B_4 [eng, V]", quantity="none")
<i>LongId</i>	DM_CHOP_PID_ACC (description="DM_CHOP_PID_ACC [raw]", quantity="none")
<i>DoubleId</i>	BOL_VH_B_2 (description="BOL_VH_B_2 [eng, V]", quantity="none")
<i>StringId</i>	DM_BSPU_TR_MODE (description="DM_BSPU_TR_MODE", quantity="none")
<i>StringId</i>	DM_FPU_GR_TS_ST (description="DM_FPU_GR_TS_ST", quantity="none")
<i>DoubleId</i>	BOL_VH_B_3 (description="BOL_VH_B_3 [eng, V]", quantity="none")
<i>StringId</i>	DM_BC_TASK_AL (description="DM_BC_TASK_AL", quantity="none")
<i>LongId</i>	SPL_OBSID (description="SPL_OBSID [raw]", quantity="none")
<i>StringId</i>	DM_BC_LINK (description="DM_BC_LINK", quantity="none")

<i>DoubleId</i>	BOL_CKRLH_R_1 (description="BOL_CKRLH_R_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_BR_ERROR (description="DM_BR_ERROR [raw]", quantity="none")
<i>DoubleId</i>	BOL_VH_B_1 (description="BOL_VH_B_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_CKRLH_R_2 (description="BOL_CKRLH_R_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VDDPRO_BUR1 (description="BOL_VDDPRO_BUR1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VDDPRO_BUR2 (description="BOL_VDDPRO_BUR2 [eng, V]", quantity="none")
<i>StringId</i>	DM_SW_ALIVE (description="DM_SW_ALIVE", quantity="none")
<i>DoubleId</i>	BOL_VDL_B_3 (description="BOL_VDL_B_3 [eng, V]", quantity="none")
<i>StringId</i>	DM_SEQ_RUNNING (description="DM_SEQ_RUNNING", quantity="none")
<i>StringId</i>	DM_FWPC_POS_A (description="DM_FWPC_POS_A", quantity="none")
<i>DoubleId</i>	BOL_VDL_B_2 (description="BOL_VDL_B_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VDL_B_4 (description="BOL_VDL_B_4 [eng, V]", quantity="none")
<i>StringId</i>	DM_FWPC_POS_B (description="DM_FWPC_POS_B", quantity="none")
<i>LongId</i>	DM_CC_SPARE4 (description="DM_CC_SPARE4 [raw]", quantity="none")
<i>DoubleId</i>	LAST_16BIT_TIME (description="LAST_16BIT_TIME [eng, s]", quantity="none")
<i>DoubleId</i>	BOL_VDL_B_1 (description="BOL_VDL_B_1 [eng, V]", quantity="none")
<i>StringId</i>	DM_DRR_TASK_WR (description="DM_DRR_TASK_WR", quantity="none")
<i>StringId</i>	DM_DBR_TASK_AL (description="DM_DBR_TASK_AL", quantity="none")
<i>LongId</i>	DP_GEN_TM_LOST (description="DP_GEN_TM_LOST [raw]", quantity="none")
<i>StringId</i>	DM_FWPC_POWER (description="DM_FWPC_POWER", quantity="none")
<i>StringId</i>	DM_GC_DOWN (description="DM_GC_DOWN", quantity="none")
<i>DoubleId</i>	BOL_VSS_BU_R_1 (description="BOL_VSS_BU_R_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_DRR_ERROR (description="DM_DRR_ERROR [raw]", quantity="none")
<i>DoubleId</i>	BOL_VSS_BU_R_2 (description="BOL_VSS_BU_R_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VSS_R_1 (description="BOL_VSS_R_1 [eng, V]", quantity="none")

<i>DoubleId</i>	BOL_VSS_R_2 (description="BOL_VSS_R_2 [eng, V]", quantity="none")
<i>LongId</i>	DM_FWPC_SPARE4 (description="DM_FWPC_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DM_PLL_RES_HI (description="DM_PLL_RES_HI [raw]", quantity="none")
<i>LongId</i>	DM_BR_SPARE2 (description="DM_BR_SPARE2 [raw]", quantity="none")
<i>StringId</i>	DM_SEQ_OPTIONS (description="DM_SEQ_OPTIONS", quantity="none")
<i>LongId</i>	DP_COM_SPL_PACK (description="DP_COM_SPL_PACK [raw]", quantity="none")
<i>DoubleId</i>	BOL_VSS_B_1 (description="BOL_VSS_B_1 [eng, V]", quantity="none")
<i>StringId</i>	DM_DBC_LINK (description="DM_DBC_LINK", quantity="none")
<i>DoubleId</i>	BOL_VSS_B_2 (description="BOL_VSS_B_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VSS_B_3 (description="BOL_VSS_B_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VSS_B_4 (description="BOL_VSS_B_4 [eng, V]", quantity="none")
<i>LongId</i>	DM_DPUS_ERROR (description="DM_DPUS_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_HKD_TASK_WR (description="DM_HKD_TASK_WR", quantity="none")
<i>LongId</i>	DM_DECB_CTRL_PA (description="DM_DECB_CTRL_PA [raw]", quantity="none")
<i>LongId</i>	SPL_SUBVERSION (description="SPL_SUBVERSION [raw]", quantity="none")
<i>LongId</i>	DM_BOL_READ_CNT (description="DM_BOL_READ_CNT [raw]", quantity="none")
<i>StringId</i>	DM_HKCO_ERR_NS (description="DM_HKCO_ERR_NS", quantity="none")
<i>LongId</i>	FIRST32BIT_TIME (description="FIRST32BIT_TIME [raw]", quantity="none")
<i>StringId</i>	DM_HKD_DIAGMODE (description="DM_HKD_DIAGMODE", quantity="none")
<i>StringId</i>	DP_1553_HANDLER (description="DP_1553_HANDLER", quantity="none")
<i>StringId</i>	DM_DRC_TASK_AL (description="DM_DRC_TASK_AL", quantity="none")
<i>LongId</i>	DM_SEQ_LOOP_ID4 (description="DM_SEQ_LOOP_ID4 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF12 (description="DM_LAST_ER_BF12 [raw]", quantity="none")
<i>StringId</i>	DM_FWPC_TASK_WR (description="DM_FWPC_TASK_WR", quantity="none")

<i>LongId</i>	DM_LAST_ER_BF13 (description="DM_LAST_ER_BF13 [raw]", quantity="none")
<i>LongId</i>	DM_FWGRAT_HALLA (description="DM_FWGRAT_HALLA [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF14 (description="DM_LAST_ER_BF14 [raw]", quantity="none")
<i>LongId</i>	DM_FWGRAT_HALLB (description="DM_FWGRAT_HALLB [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF15 (description="DM_LAST_ER_BF15 [raw]", quantity="none")
<i>LongId</i>	DM_SEQ_LOOP_ID0 (description="DM_SEQ_LOOP_ID0 [raw]", quantity="none")
<i>LongId</i>	DM_SEQ_LOOP_ID1 (description="DM_SEQ_LOOP_ID1 [raw]", quantity="none")
<i>LongId</i>	SPL_SAMP_CORR (description="SPL_SAMP_CORR [raw]", quantity="none")
<i>LongId</i>	DM_SEQ_LOOP_ID2 (description="DM_SEQ_LOOP_ID2 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF10 (description="DM_LAST_ER_BF10 [raw]", quantity="none")
<i>LongId</i>	DM_SEQ_LOOP_ID3 (description="DM_SEQ_LOOP_ID3 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF11 (description="DM_LAST_ER_BF11 [raw]", quantity="none")
<i>StringId</i>	DM_CC_TASK_WR (description="DM_CC_TASK_WR", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF16 (description="DM_LAST_ER_BF16 [raw]", quantity="none")
<i>StringId</i>	DM_GC_PID (description="DM_GC_PID", quantity="none")
<i>DoubleId</i>	DM_SPU_PS_TEMP (description="DM_SPU_PS_TEMP [eng, K]", quantity="none")
<i>LongId</i>	DP_COM_DMC (description="DP_COM_DMC [raw]", quantity="none")
<i>StringId</i>	DP_OBCP_RUN (description="DP_OBCP_RUN", quantity="none")
<i>StringId</i>	DP_IRQ3_TASK (description="DP_IRQ3_TASK", quantity="none")
<i>DoubleId</i>	DM_FPU_T2_TEMP (description="DM_FPU_T2_TEMP [eng, K]", quantity="none")
<i>LongId</i>	SID (description="SID [raw]", quantity="none")
<i>LongId</i>	SPS_PIX (description="SPS_PIX [raw]", quantity="none")
<i>LongId</i>	DM_FWSC_SPARE4 (description="DM_FWSC_SPARE4 [raw]", quantity="none")
<i>StringId</i>	DM_BPE_TASK_AL (description="DM_BPE_TASK_AL", quantity="none")
<i>StringId</i>	DM_FPU_CH_TS_ST (description="DM_FPU_CH_TS_ST", quantity="none")
<i>StringId</i>	DM_DSIM_TIME (description="DM_DSIM_TIME", quantity="none")

<i>DoubleId</i>	BOL_VDL_R_2 (description="BOL_VDL_R_2 [eng, V]", quantity="none")
<i>StringId</i>	DM_DBR_ERR_NS (description="DM_DBR_ERR_NS", quantity="none")
<i>DoubleId</i>	BOL_VDL_R_1 (description="BOL_VDL_R_1 [eng, V]", quantity="none")
<i>StringId</i>	SPS_DMC_LINK (description="SPS_DMC_LINK", quantity="none")
<i>LongId</i>	DM_DET_SIM_STAT (description="DM_DET_SIM_STAT [raw]", quantity="none")
<i>LongId</i>	DP_COM_DMC_PACK (description="DP_COM_DMC_PACK [raw]", quantity="none")
<i>LongId</i>	DM_DECR_CTRL_PA (description="DM_DECR_CTRL_PA [raw]", quantity="none")
<i>LongId</i>	HD_APIID (description="HD_APIID [raw]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_2R (description="BOL_I_HEATER_2R [eng, A]", quantity="none")
<i>LongId</i>	DM_DSIM_SPARE7 (description="DM_DSIM_SPARE7 [raw]", quantity="none")
<i>DoubleId</i>	BOL_I_VSS_B_4 (description="BOL_I_VSS_B_4 [eng, A]", quantity="none")
<i>StringId</i>	DP_STABLE_DEC (description="DP_STABLE_DEC", quantity="none")
<i>LongId</i>	DM_LAST_ERR_ID (description="DM_LAST_ERR_ID [raw]", quantity="none")
<i>DoubleId</i>	BOL_I_VSS_B_3 (description="BOL_I_VSS_B_3 [eng, A]", quantity="none")
<i>DoubleId</i>	BOL_I_VSS_B_2 (description="BOL_I_VSS_B_2 [eng, A]", quantity="none")
<i>DoubleId</i>	BOL_I_VSS_B_1 (description="BOL_I_VSS_B_1 [eng, A]", quantity="none")
<i>LongId</i>	SPS_LLC_ERROR (description="SPS_LLC_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_RED_ENC_PAC (description="DM_RED_ENC_PAC [raw]", quantity="none")
<i>StringId</i>	DM_CS2C_DOWN (description="DM_CS2C_DOWN", quantity="none")
<i>StringId</i>	DP_SPL_LINK (description="DP_SPL_LINK", quantity="none")
<i>LongId</i>	DM_IRS_CNT (description="DM_IRS_CNT [raw]", quantity="none")
<i>LongId</i>	DM_SW_SPARE5 (description="DM_SW_SPARE5 [raw]", quantity="none")
<i>LongId</i>	DP_COM_SPS_NACK (description="DP_COM_SPS_NACK [raw]", quantity="none")
<i>StringId</i>	DM_BR_TASK_WR (description="DM_BR_TASK_WR", quantity="none")
<i>DoubleId</i>	BOL_I_VSS_R_2 (description="BOL_I_VSS_R_2 [eng, A]", quantity="none")

<i>DoubleId</i>	BOL_I_VSS_R_1 (description="BOL_I_VSS_R_1 [eng, A]", quantity="none")
<i>StringId</i>	DM_DBR_SENDING (description="DM_DBR_SENDING", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_1R (description="BOL_I_HEATER_1R [eng, A]", quantity="none")
<i>LongId</i>	DP_COM_SPUS (description="DP_COM_SPUS [raw]", quantity="none")
<i>StringId</i>	DM_CS1C_POWER (description="DM_CS1C_POWER", quantity="none")
<i>StringId</i>	DM_DPUR_TASK_WR (description="DM_DPUR_TASK_WR", quantity="none")
<i>LongId</i>	DP_COM_SPUL (description="DP_COM_SPUL [raw]", quantity="none")
<i>StringId</i>	DM_GC_SYNCHRO (description="DM_GC_SYNCHRO", quantity="none")
<i>StringId</i>	DM_SEQ_TASK_AL (description="DM_SEQ_TASK_AL", quantity="none")
<i>DoubleId</i>	BOL_TEMP_SP_SWT (description="BOL_TEMP_SP_SWT [eng, K]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B2 (description="BOL_I_HEATER_B2 [eng, A]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B3 (description="BOL_I_HEATER_B3 [eng, A]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B4 (description="BOL_I_HEATER_B4 [eng, A]", quantity="none")
<i>LongId</i>	DM_SEQ_STATUS (description="DM_SEQ_STATUS [raw]", quantity="none")
<i>DoubleId</i>	BOL_VRL_B_1 (description="BOL_VRL_B_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VRL_B_3 (description="BOL_VRL_B_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B1 (description="BOL_I_HEATER_B1 [eng, A]", quantity="none")
<i>DoubleId</i>	BOL_VRL_B_2 (description="BOL_VRL_B_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VRL_B_4 (description="BOL_VRL_B_4 [eng, V]", quantity="none")
<i>LongId</i>	DM_FW_PHOT_CTRL (description="DM_FW_PHOT_CTRL [raw]", quantity="none")
<i>DoubleId</i>	BOL_HEATER_B_1 (description="BOL_HEATER_B_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_HEATER_B_2 (description="BOL_HEATER_B_2 [eng, V]", quantity="none")
<i>StringId</i>	DM_CC_PID (description="DM_CC_PID", quantity="none")
<i>DoubleId</i>	BOL_HEATER_B_3 (description="BOL_HEATER_B_3 [eng, V]", quantity="none")

<i>DoubleId</i>	BOL_HEATER_B_4 (description="BOL_HEATER_B_4 [eng, V]", quantity="none")
<i>StringId</i>	DM_GC_DEGRADE (description="DM_GC_DEGRADE", quantity="none")
<i>StringId</i>	DM_CS1C_DOWN (description="DM_CS1C_DOWN", quantity="none")
<i>DoubleId</i>	BOL_VRL_R_1 (description="BOL_VRL_R_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VRL_R_2 (description="BOL_VRL_R_2 [eng, V]", quantity="none")
<i>StringId</i>	DP_COUNTER_SPS (description="DP_COUNTER_SPS", quantity="none")
<i>DoubleId</i>	BOL_VDDPRO_CLB3 (description="BOL_VDDPRO_CLB3 [eng, V]", quantity="none")
<i>StringId</i>	DM_BR_TASK_AL (description="DM_BR_TASK_AL", quantity="none")
<i>DoubleId</i>	BOL_VDDPRO_CLB4 (description="BOL_VDDPRO_CLB4 [eng, V]", quantity="none")
<i>LongId</i>	DM_GC_LL_SC (description="DM_GC_LL_SC [raw]", quantity="none")
<i>DoubleId</i>	BOL_VDDPRO_CLB1 (description="BOL_VDDPRO_CLB1 [eng, V]", quantity="none")
<i>LongId</i>	DM_DPUR_SPARE4 (description="DM_DPUR_SPARE4 [raw]", quantity="none")
<i>DoubleId</i>	BOL_VDDPRO_CLB2 (description="BOL_VDDPRO_CLB2 [eng, V]", quantity="none")
<i>LongId</i>	DP_COM_REC_DPU (description="DP_COM_REC_DPU [raw]", quantity="none")
<i>StringId</i>	DM_DPUS_TASK_WR (description="DM_DPUS_TASK_WR", quantity="none")
<i>StringId</i>	DM_SEQ_IDLE (description="DM_SEQ_IDLE", quantity="none")
<i>LongId</i>	DM_FPU_T_SEN_ST (description="DM_FPU_T_SEN_ST [raw]", quantity="none")
<i>StringId</i>	DM_HKD_TASK_AL (description="DM_HKD_TASK_AL", quantity="none")
<i>LongId</i>	DM_BOL_CTRL_STA (description="DM_BOL_CTRL_STA [raw]", quantity="none")
<i>StringId</i>	DM_CS2C_POWER (description="DM_CS2C_POWER", quantity="none")
<i>LongId</i>	DM_SEQ_POINTER (description="DM_SEQ_POINTER [raw]", quantity="none")
<i>LongId</i>	DM_DPU_SEN_STAT (description="DM_DPU_SEN_STAT [raw]", quantity="none")
<i>LongId</i>	DM_SW_GLOBAL_ST (description="DM_SW_GLOBAL_ST [raw]", quantity="none")
<i>DoubleId</i>	BOL_GND_BU_B_1 (description="BOL_GND_BU_B_1 [eng, V]", quantity="none")
<i>DoubleId</i>	DP_T (description="DP_T [eng, degC]", quantity="none")

<i>DoubleId</i>	BOL_GND_BU_B_2 (description="BOL_GND_BU_B_2 [eng, V]", quantity="none")
<i>LongId</i>	DM_DECB_REC_PAC (description="DM_DECB_REC_PAC [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_6 (description="BOL_PWR_ANA_P_6 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_7 (description="BOL_PWR_ANA_P_7 [eng, V]", quantity="none")
<i>StringId</i>	DP_BURST_MODE (description="DP_BURST_MODE", quantity="none")
<i>DoubleId</i>	BOL_GND_BU_B_3 (description="BOL_GND_BU_B_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_GND_BU_B_4 (description="BOL_GND_BU_B_4 [eng, V]", quantity="none")
<i>StringId</i>	DM_FPU_S2_TS_ST (description="DM_FPU_S2_TS_ST", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_2 (description="BOL_PWR_ANA_P_2 [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF5 (description="DM_LAST_ER_BF5 [raw]", quantity="none")
<i>LongId</i>	SPS_SUBVERSION (description="SPS_SUBVERSION [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF6 (description="DM_LAST_ER_BF6 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_3 (description="BOL_PWR_ANA_P_3 [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF3 (description="DM_LAST_ER_BF3 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_4 (description="BOL_PWR_ANA_P_4 [eng, V]", quantity="none")
<i>LongId</i>	SPL_PIX (description="SPL_PIX [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF4 (description="DM_LAST_ER_BF4 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_5 (description="BOL_PWR_ANA_P_5 [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF9 (description="DM_LAST_ER_BF9 [raw]", quantity="none")
<i>LongId</i>	DM_BOL_REC_STAT (description="DM_BOL_REC_STAT [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF7 (description="DM_LAST_ER_BF7 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_1 (description="BOL_PWR_ANA_P_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF8 (description="DM_LAST_ER_BF8 [raw]", quantity="none")
<i>StringId</i>	DM_DSIM_BOL_SIM (description="DM_DSIM_BOL_SIM", quantity="none")

<i>LongId</i>	SPL_MAINT_RAMPS (description="SPL_MAINT_RAMPS [raw]", quantity="none")
<i>DoubleId</i>	BOL_GND_BU_R_1 (description="BOL_GND_BU_R_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_GND_BU_R_2 (description="BOL_GND_BU_R_2 [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF1 (description="DM_LAST_ER_BF1 [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_BIAS (description="DP_EV_BOL_BIAS", quantity="none")
<i>LongId</i>	DM_HK_DIAG_STAT (description="DM_HK_DIAG_STAT [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF2 (description="DM_LAST_ER_BF2 [raw]", quantity="none")
<i>StringId</i>	DM_CC_UP (description="DM_CC_UP", quantity="none")
<i>StringId</i>	DP_EVENT_DEC (description="DP_EVENT_DEC", quantity="none")
<i>LongId</i>	DM_DPUR_ERROR (description="DM_DPUR_ERROR [raw]", quantity="none")
<i>StringId</i>	DP_SPS_LINK (description="DP_SPS_LINK", quantity="none")
<i>LongId</i>	DM_FWPC_SPARE1A (description="DM_FWPC_SPARE1A [raw]", quantity="none")
<i>LongId</i>	DM_FWPC_SPARE1B (description="DM_FWPC_SPARE1B [raw]", quantity="none")
<i>StringId</i>	DM_GC_COMMUT (description="DM_GC_COMMUT", quantity="none")
<i>LongId</i>	DM_GRAT_CUR_POS (description="DM_GRAT_CUR_POS [raw]", quantity="none")
<i>StringId</i>	DM_RPE_ERR_NS (description="DM_RPE_ERR_NS", quantity="none")
<i>LongId</i>	DM_OBSID (description="DM_OBSID [raw]", quantity="none")
<i>StringId</i>	DM_FWPC_POSC_A (description="DM_FWPC_POSC_A", quantity="none")
<i>StringId</i>	DM_FWPC_POSC_B (description="DM_FWPC_POSC_B", quantity="none")
<i>StringId</i>	DP_EV_BOL_T_WE (description="DP_EV_BOL_T_WE", quantity="none")
<i>StringId</i>	DM_DRC_TASK_WR (description="DM_DRC_TASK_WR", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_5 (description="BOL_PWR_DIG_5 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_6 (description="BOL_PWR_DIG_6 [eng, V]", quantity="none")
<i>StringId</i>	DM_DPUS_LINK (description="DM_DPUS_LINK", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_7 (description="BOL_PWR_DIG_7 [eng, V]", quantity="none")

<i>LongId</i>	DM_BC_SPARE4 (description="DM_BC_SPARE4 [raw]", quantity="none")
<i>StringId</i>	DM_FWPC_ERR_NS (description="DM_FWPC_ERR_NS", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_1 (description="BOL_PWR_DIG_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_2 (description="BOL_PWR_DIG_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_3 (description="BOL_PWR_DIG_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_4 (description="BOL_PWR_DIG_4 [eng, V]", quantity="none")
<i>StringId</i>	DM_DBR_SIM_TIME (description="DM_DBR_SIM_TIME", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_RO (description="DP_EV_BOL_I_RO", quantity="none")
<i>StringId</i>	DM_CS1C_TASK_AL (description="DM_CS1C_TASK_AL", quantity="none")
<i>StringId</i>	DM_SW_COPY_OBS (description="DM_SW_COPY_OBS", quantity="none")
<i>DoubleId</i>	BOL_VGL_BU_B_3 (description="BOL_VGL_BU_B_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VGL_BU_B_4 (description="BOL_VGL_BU_B_4 [eng, V]", quantity="none")
<i>LongId</i>	SPS_SAMP_CORR (description="SPS_SAMP_CORR [raw]", quantity="none")
<i>DoubleId</i>	BOL_VGL_BU_B_1 (description="BOL_VGL_BU_B_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VGL_BU_B_2 (description="BOL_VGL_BU_B_2 [eng, V]", quantity="none")
<i>StringId</i>	DM_SW_ERR (description="DM_SW_ERR", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU_ST (description="BOL_TEMP_FPU_ST [eng, K]", quantity="none")
<i>DoubleId</i>	BOL_VDECXL_B_4 (description="BOL_VDECXL_B_4 [eng, V]", quantity="none")
<i>StringId</i>	DM_BR_SENDING (description="DM_BR_SENDING", quantity="none")
<i>StringId</i>	DM_DSIM_R_SIMUL (description="DM_DSIM_R_SIMUL", quantity="none")
<i>DoubleId</i>	DP_VOL_15P (description="DP_VOL_15P [eng, V]", quantity="none")
<i>StringId</i>	DM_FPU_CS_TS_ST (description="DM_FPU_CS_TS_ST", quantity="none")
<i>DoubleId</i>	DM_FW_SPEC_TEMP (description="DM_FW_SPEC_TEMP [eng, K]", quantity="none")
<i>DoubleId</i>	BOL_VDECXL_B_2 (description="BOL_VDECXL_B_2 [eng, V]", quantity="none")

<i>DoubleId</i>	DP_VOL_15N (description="DP_VOL_15N [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VDECTL_B_3 (description="BOL_VDECTL_B_3 [eng, V]", quantity="none")
<i>StringId</i>	DM_BR_LINK (description="DM_BR_LINK", quantity="none")
<i>StringId</i>	DM_HKCO_TASK_WR (description="DM_HKCO_TASK_WR", quantity="none")
<i>DoubleId</i>	BOL_VGL_BU_R_1 (description="BOL_VGL_BU_R_1 [eng, V]", quantity="none")
<i>LongId</i>	SPS_CI (description="SPS_CI [raw]", quantity="none")
<i>DoubleId</i>	BOL_VDECTL_B_1 (description="BOL_VDECTL_B_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VGL_BU_R_2 (description="BOL_VGL_BU_R_2 [eng, V]", quantity="none")
<i>LongId</i>	HD_LENGTH (description="HD_LENGTH [raw]", quantity="none")
<i>LongId</i>	DP_COM_SPS_PACK (description="DP_COM_SPS_PACK [raw]", quantity="none")
<i>LongId</i>	DP_1_8_REJECTED (description="DP_1_8_REJECTED [raw]", quantity="none")
<i>DoubleId</i>	BOL_VSS_BU_B_4 (description="BOL_VSS_BU_B_4 [eng, V]", quantity="none")
<i>LongId</i>	DM_FWSC_SPARE1A (description="DM_FWSC_SPARE1A [raw]", quantity="none")
<i>DoubleId</i>	BOL_VSS_BU_B_3 (description="BOL_VSS_BU_B_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VDECTL_R_2 (description="BOL_VDECTL_R_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VSS_BU_B_2 (description="BOL_VSS_BU_B_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VSS_BU_B_1 (description="BOL_VSS_BU_B_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_CS2C_ERROR (description="DM_CS2C_ERROR [raw]", quantity="none")
<i>DoubleId</i>	BOL_VDECTL_R_1 (description="BOL_VDECTL_R_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_SEQ_ERROR (description="DM_SEQ_ERROR [raw]", quantity="none")
<i>StringId</i>	DP_1355_LINK (description="DP_1355_LINK", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU1 (description="BOL_TEMP_FPU1 [eng, K]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU2 (description="BOL_TEMP_FPU2 [eng, K]", quantity="none")
<i>LongId</i>	SPS_PAR_MONITOR (description="SPS_PAR_MONITOR [raw]", quantity="none")
<i>LongId</i>	DP_1_2_REJECTED (description="DP_1_2_REJECTED [raw]", quantity="none")
<i>StringId</i>	DM_BPE_TASK_WR (description="DM_BPE_TASK_WR", quantity="none")

<i>LongId</i>	DM_FWPC_ERROR (description="DM_FWPC_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_GRAT_CTRL_ST (description="DM_GRAT_CTRL_ST [raw]", quantity="none")
<i>DoubleId</i>	BOL_CKRLH_B_1 (description="BOL_CKRLH_B_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_4 (description="BOL_PWR_ANA_N_4 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_5 (description="BOL_PWR_ANA_N_5 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VGG_R_2 (description="BOL_VGG_R_2 [eng, V]", quantity="none")
<i>LongId</i>	DM_SW_ERROR (description="DM_SW_ERROR [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_6 (description="BOL_PWR_ANA_N_6 [eng, V]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT10 (description="DM_CUSTOM_ENT10 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_7 (description="BOL_PWR_ANA_N_7 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_1 (description="BOL_PWR_ANA_N_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_CKRLH_B_4 (description="BOL_CKRLH_B_4 [eng, V]", quantity="none")
<i>StringId</i>	SPL_DMC_ERROR (description="SPL_DMC_ERROR", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_2 (description="BOL_PWR_ANA_N_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_CKRLH_B_3 (description="BOL_CKRLH_B_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VGG_R_1 (description="BOL_VGG_R_1 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_SPU_SWL_TEMP (description="DM_SPU_SWL_TEMP [eng, K]", quantity="none")
<i>DoubleId</i>	BOL_CKRLH_B_2 (description="BOL_CKRLH_B_2 [eng, V]", quantity="none")
<i>LongId</i>	DM_HK_DIAG_PERI (description="DM_HK_DIAG_PERI [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_3 (description="BOL_PWR_ANA_N_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VH_BLIND_B3 (description="BOL_VH_BLIND_B3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VH_BLIND_B4 (description="BOL_VH_BLIND_B4 [eng, V]", quantity="none")
<i>LongId</i>	DM_FWSC_SPARE1B (description="DM_FWSC_SPARE1B [raw]", quantity="none")
<i>DoubleId</i>	DP_VOL_25P (description="DP_VOL_25P [eng, V]", quantity="none")

<i>DoubleId</i>	BOL_VSMESH_B_2 (description="BOL_VSMESH_B_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VGG_B_3 (description="BOL_VGG_B_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VSMESH_B_1 (description="BOL_VSMESH_B_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VGG_B_2 (description="BOL_VGG_B_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VGG_B_4 (description="BOL_VGG_B_4 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VH_BLIND_B1 (description="BOL_VH_BLIND_B1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VH_BLIND_B2 (description="BOL_VH_BLIND_B2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VGG_B_1 (description="BOL_VGG_B_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VSMESH_B_4 (description="BOL_VSMESH_B_4 [eng, V]", quantity="none")
<i>DoubleId</i>	SPL_CPUWORKLOAD (description="SPL_CPUWORKLOAD [eng, %]", quantity="none")
<i>DoubleId</i>	BOL_VSMESH_B_3 (description="BOL_VSMESH_B_3 [eng, V]", quantity="none")
<i>StringId</i>	DP_SPUS_LINK (description="DP_SPUS_LINK", quantity="none")
<i>LongId</i>	DM_SEQ_SPARE2 (description="DM_SEQ_SPARE2 [raw]", quantity="none")
<i>DoubleId</i>	DP_VOL_5P (description="DP_VOL_5P [eng, V]", quantity="none")
<i>LongId</i>	DM_DPU_REC_PAC (description="DM_DPU_REC_PAC [raw]", quantity="none")
<i>StringId</i>	DP_COUNTER_SPL (description="DP_COUNTER_SPL", quantity="none")
<i>LongId</i>	DM_SEQ_SPARE1 (description="DM_SEQ_SPARE1 [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_HEA (description="DP_EV_BOL_I_HEA", quantity="none")
<i>DoubleId</i>	BOL_I_VSS_BU_B4 (description="BOL_I_VSS_BU_B4 [eng, A]", quantity="none")
<i>DoubleId</i>	BOL_VSMESH_R_2 (description="BOL_VSMESH_R_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_I_VSS_BU_B3 (description="BOL_I_VSS_BU_B3 [eng, A]", quantity="none")
<i>DoubleId</i>	BOL_VSMESH_R_1 (description="BOL_VSMESH_R_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_I_VSS_BU_B2 (description="BOL_I_VSS_BU_B2 [eng, A]", quantity="none")
<i>DoubleId</i>	BOL_I_VSS_BU_B1 (description="BOL_I_VSS_BU_B1 [eng, A]", quantity="none")
<i>DoubleId</i>	BOL_HEATER_SP (description="BOL_HEATER_SP [eng, A]", quantity="none")

<i>StringId</i>	DP_COUNTER_PHOT (description="DP_COUNTER_PHOT", quantity="none")
<i>StringId</i>	DM_DSIM_ERR_NS (description="DM_DSIM_ERR_NS", quantity="none")
<i>LongId</i>	DM_DECR_REC_PAC (description="DM_DECR_REC_PAC [raw]", quantity="none")
<i>LongId</i>	DP_SPUS_LINK_DE (description="DP_SPUS_LINK_DE [raw]", quantity="none")
<i>StringId</i>	DM_CC_LOOP (description="DM_CC_LOOP", quantity="none")
<i>LongId</i>	SPS_RCX (description="SPS_RCX [raw]", quantity="none")
<i>DoubleId</i>	BOL_HEATER_R_1 (description="BOL_HEATER_R_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_BC_ERROR (description="DM_BC_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_DSIM_TASK_AL (description="DM_DSIM_TASK_AL", quantity="none")
<i>DoubleId</i>	BOL_HEATER_R_2 (description="BOL_HEATER_R_2 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_CAL_SRC_TEMP (description="DM_CAL_SRC_TEMP [eng, K]", quantity="none")
<i>DoubleId</i>	BOL_CKTRIL_R_R2 (description="BOL_CKTRIL_R_R2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_CKTRIL_R_R1 (description="BOL_CKTRIL_R_R1 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_CS1_OUTPUT (description="DM_CS1_OUTPUT [eng, V]", quantity="none")
<i>StringId</i>	DM_DRR_SENDING (description="DM_DRR_SENDING", quantity="none")
<i>StringId</i>	DM_DRC_LINK (description="DM_DRC_LINK", quantity="none")
<i>StringId</i>	DP_SPUL_CMD (description="DP_SPUL_CMD", quantity="none")
<i>LongId</i>	DM_BLUE_PAC_ENC (description="DM_BLUE_PAC_ENC [raw]", quantity="none")
<i>LongId</i>	SPL_RCX (description="SPL_RCX [raw]", quantity="none")
<i>LongId</i>	DM_HK_CTRL_STAT (description="DM_HK_CTRL_STAT [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_T_FPU (description="DP_EV_BOL_T_FPU", quantity="none")
<i>LongId</i>	DM_PM_DF_IND (description="DM_PM_DF_IND [raw]", quantity="none")
<i>LongId</i>	DM_HKCO_ERROR (description="DM_HKCO_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_CS2C_PID (description="DM_CS2C_PID", quantity="none")
<i>LongId</i>	DM_DPU_REC_STAT (description="DM_DPU_REC_STAT [raw]", quantity="none")
<i>StringId</i>	DP_OBCP_MANAGER (description="DP_OBCP_MANAGER", quantity="none")
<i>LongId</i>	HD_SPARE_3 (description="HD_SPARE_3 [raw]", quantity="none")

<i>StringId</i>	DP_DEC_LINK (description="DP_DEC_LINK", quantity="none")
<i>LongId</i>	SPL_LLC_ERROR (description="SPL_LLC_ERROR [raw]", quantity="none")
<i>LongId</i>	HD_VERSION_NUMB (description="HD_VERSION_NUMB [raw]", quantity="none")
<i>LongId</i>	DM_DBR_SPARE2 (description="DM_DBR_SPARE2 [raw]", quantity="none")
<i>LongId</i>	DM_HKCO_SPARE5 (description="DM_HKCO_SPARE5 [raw]", quantity="none")
<i>LongId</i>	HD_SPARE_1 (description="HD_SPARE_1 [raw]", quantity="none")
<i>LongId</i>	HD_SPARE_2 (description="HD_SPARE_2 [raw]", quantity="none")
<i>LongId</i>	SPS_VID (description="SPS_VID [raw]", quantity="none")
<i>StringId</i>	DM_FWSC_TASK_WR (description="DM_FWSC_TASK_WR", quantity="none")
<i>LongId</i>	DM_OBT_COUNT (description="DM_OBT_COUNT [raw]", quantity="none")
<i>StringId</i>	DM_FPU_FWP_TS_S (description="DM_FPU_FWP_TS_S", quantity="none")
<i>StringId</i>	DP_SPUS_CMD (description="DP_SPUS_CMD", quantity="none")
<i>StringId</i>	DM_GC_LL_LOCKED (description="DM_GC_LL_LOCKED", quantity="none")
<i>LongId</i>	DM_DSIM_SPARE1A (description="DM_DSIM_SPARE1A [raw]", quantity="none")
<i>LongId</i>	DM_CS2_CTRL_STA (description="DM_CS2_CTRL_STA [raw]", quantity="none")
<i>DoubleId</i>	DM_DSP_TEMP (description="DM_DSP_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_BR_SIM_TIME (description="DM_BR_SIM_TIME", quantity="none")
<i>StringId</i>	DM_GC_LL_MOVING (description="DM_GC_LL_MOVING", quantity="none")
<i>LongId</i>	DM_DSIM_SPARE1B (description="DM_DSIM_SPARE1B [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_4 (description="BOL_TEMP_R_4 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_5 (description="BOL_TEMP_R_5 [eng, degC]", quantity="none")
<i>LongId</i>	DM_MIM_ST (description="DM_MIM_ST [raw]", quantity="none")
<i>LongId</i>	DM_DSIM_ERROR (description="DM_DSIM_ERROR [raw]", quantity="none")
<i>StringId</i>	SPS_DMC_ERROR (description="SPS_DMC_ERROR", quantity="none")
<i>LongId</i>	DM_GC_ERROR (description="DM_GC_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_CC_ERROR (description="DM_CC_ERROR [raw]", quantity="none")
<i>StringId</i>	DP_SPUL_LINK (description="DP_SPUL_LINK", quantity="none")

<i>DoubleId</i>	BOL_TEMP_R_1 (description="BOL_TEMP_R_1 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_2 (description="BOL_TEMP_R_2 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_3 (description="BOL_TEMP_R_3 [eng, degC]", quantity="none")
<i>StringId</i>	DM_CS2C_UP (description="DM_CS2C_UP", quantity="none")
<i>StringId</i>	DM_DSIM_TASK_WR (description="DM_DSIM_TASK_WR", quantity="none")
<i>StringId</i>	DM_DPUR_TASK_AL (description="DM_DPUR_TASK_AL", quantity="none")
<i>LongId</i>	SPS_REAL (description="SPS_REAL [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_B_3 (description="BOL_TEMP_B_3 [eng, degC]", quantity="none")
<i>LongId</i>	DM_CHOP_SETPOIN (description="DM_CHOP_SETPOIN [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_B_2 (description="BOL_TEMP_B_2 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_B_1 (description="BOL_TEMP_B_1 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_DAQ (description="BOL_TEMP_DAQ [eng, degC]", quantity="none")
<i>StringId</i>	DP_TEST_MODE (description="DP_TEST_MODE", quantity="none")
<i>LongId</i>	DM_CHOP_CUR_POS (description="DM_CHOP_CUR_POS [raw]", quantity="none")
<i>LongId</i>	DM_CS2C_SPARE1B (description="DM_CS2C_SPARE1B [raw]", quantity="none")
<i>StringId</i>	DM_RPE_TASK_AL (description="DM_RPE_TASK_AL", quantity="none")
<i>DoubleId</i>	DM_FW_PHOT_TEMP (description="DM_FW_PHOT_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DP_BLUE_SCIENCE (description="DP_BLUE_SCIENCE", quantity="none")
<i>StringId</i>	DP_UNIT (description="DP_UNIT", quantity="none")
<i>StringId</i>	DP_DMC_CMD (description="DP_DMC_CMD", quantity="none")
<i>StringId</i>	DM_CC_COMMUT (description="DM_CC_COMMUT", quantity="none")
<i>LongId</i>	DM_TIME_2 (description="DM_TIME_2 [raw]", quantity="none")
<i>LongId</i>	DM_TIME_1 (description="DM_TIME_1 [raw]", quantity="none")
<i>DoubleId</i>	BOL_CKRLR_R_1 (description="BOL_CKRLR_R_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_CS1C_SPARE1 (description="DM_CS1C_SPARE1 [raw]", quantity="none")
<i>DoubleId</i>	BOL_CKRLR_B_4 (description="BOL_CKRLR_B_4 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VL_R_1 (description="BOL_VL_R_1 [eng, V]", quantity="none")

<i>LongId</i>	DP_SPUS_LINK_PE (description="DP_SPUS_LINK_PE [raw]", quantity="none")
<i>DoubleId</i>	BOL_CKRLB_B_3 (description="BOL_CKRLB_B_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_CKRLB_B_2 (description="BOL_CKRLB_B_2 [eng, V]", quantity="none")
<i>LongId</i>	DM_CS1C_ERROR (description="DM_CS1C_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_CS1C_SPARE4 (description="DM_CS1C_SPARE4 [raw]", quantity="none")
<i>DoubleId</i>	BOL_VL_R_2 (description="BOL_VL_R_2 [eng, V]", quantity="none")
<i>LongId</i>	DM_PM_SF_IND (description="DM_PM_SF_IND [raw]", quantity="none")
<i>LongId</i>	DM_BPE_ERROR (description="DM_BPE_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_GC_ERR_NS (description="DM_GC_ERR_NS", quantity="none")
<i>StringId</i>	DM_CS2C_TASK_WR (description="DM_CS2C_TASK_WR", quantity="none")
<i>DoubleId</i>	BOL_TEMP_EV (description="BOL_TEMP_EV [eng, K]", quantity="none")
<i>DoubleId</i>	BOL_VDDPRO_BUB3 (description="BOL_VDDPRO_BUB3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VDDPRO_BUB4 (description="BOL_VDDPRO_BUB4 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VDDPRO_BUB1 (description="BOL_VDDPRO_BUB1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VDDPRO_BUB2 (description="BOL_VDDPRO_BUB2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VL_B_1 (description="BOL_VL_B_1 [eng, V]", quantity="none")
<i>StringId</i>	DM_DPUS_ERR_NS (description="DM_DPUS_ERR_NS", quantity="none")
<i>DoubleId</i>	BOL_CKRLB_R_2 (description="BOL_CKRLB_R_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VL_B_4 (description="BOL_VL_B_4 [eng, V]", quantity="none")
<i>StringId</i>	DM_FWPH_CUR_POS (description="DM_FWPH_CUR_POS", quantity="none")
<i>DoubleId</i>	BOL_VL_B_2 (description="BOL_VL_B_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VL_B_3 (description="BOL_VL_B_3 [eng, V]", quantity="none")
<i>StringId</i>	DP_STABLE_SPS (description="DP_STABLE_SPS", quantity="none")
<i>StringId</i>	DM_CS2C_SYNCHRO (description="DM_CS2C_SYNCHRO", quantity="none")

<i>StringId</i>	DM_FWSC_MOVING (description="DM_FWSC_MOVING", quantity="none")
<i>LongId</i>	DM_CHOP_MAX_DIT (description="DM_CHOP_MAX_DIT [raw]", quantity="none")
<i>LongId</i>	SPL_PAR_MONITOR (description="SPL_PAR_MONITOR [raw]", quantity="none")
<i>LongId</i>	DM_RPE_ERROR (description="DM_RPE_ERROR [raw]", quantity="none")
<i>DoubleId</i>	DM_PSC_V2 (description="DM_PSC_V2 [eng, mA]", quantity="none")
<i>StringId</i>	DM_GC_UP (description="DM_GC_UP", quantity="none")
<i>DoubleId</i>	DM_PSC_V1 (description="DM_PSC_V1 [eng, A]", quantity="none")
<i>DoubleId</i>	DM_PSC_V4 (description="DM_PSC_V4 [eng, A]", quantity="none")
<i>StringId</i>	DP_EEPROM_PROT (description="DP_EEPROM_PROT", quantity="none")
<i>DoubleId</i>	DM_PSC_V3 (description="DM_PSC_V3 [eng, mA]", quantity="none")
<i>StringId</i>	DM_HKD_ERR_NS (description="DM_HKD_ERR_NS", quantity="none")
<i>StringId</i>	DM_FWPC_SEARCHB (description="DM_FWPC_SEARCHB", quantity="none")
<i>StringId</i>	DM_FWPC_SEARCHA (description="DM_FWPC_SEARCHA", quantity="none")
<i>DoubleId</i>	DM_REF_VOLT_0V (description="DM_REF_VOLT_0V [eng, V]", quantity="none")
<i>StringId</i>	DM_FPU_S1_TS_ST (description="DM_FPU_S1_TS_ST", quantity="none")
<i>DoubleId</i>	BOL_HEATER_FPU (description="BOL_HEATER_FPU [eng, A]", quantity="none")
<i>DoubleId</i>	DM_CPU_LOAD (description="DM_CPU_LOAD [eng, %]", quantity="none")
<i>LongId</i>	DM_BBID (description="DM_BBID [raw]", quantity="none")
<i>StringId</i>	DP_STABLE_SPL (description="DP_STABLE_SPL", quantity="none")
<i>StringId</i>	DM_DPUR_ERR_NS (description="DM_DPUR_ERR_NS", quantity="none")
<i>StringId</i>	DM_FPU_FWS_TS_S (description="DM_FPU_FWS_TS_S", quantity="none")
<i>StringId</i>	DM_GC_HOM_COMP (description="DM_GC_HOM_COMP", quantity="none")
<i>LongId</i>	DM_SEQ_LABEL (description="DM_SEQ_LABEL [raw]", quantity="none")
<i>DoubleId</i>	DM_FPU_T1_TEMP (description="DM_FPU_T1_TEMP [eng, K]", quantity="none")
<i>LongId</i>	SPL_VID (description="SPL_VID [raw]", quantity="none")

<i>LongId</i>	DM_BOL_CTRL_PAC (description="DM_BOL_CTRL_PAC [raw]", quantity="none")
<i>DoubleId</i>	BOL_HEAT_SP_SWT (description="BOL_HEAT_SP_SWT [eng, A]", quantity="none")
<i>LongId</i>	DM_BLUE_ENC_PAC (description="DM_BLUE_ENC_PAC [raw]", quantity="none")
<i>LongId</i>	DP_SPUL_LINK_DE (description="DP_SPUL_LINK_DE [raw]", quantity="none")
<i>DoubleId</i>	DM_SPU_VP_CUR (description="DM_SPU_VP_CUR [eng, mA]", quantity="none")
<i>StringId</i>	DM_DSIM_B_SIMUL (description="DM_DSIM_B_SIMUL", quantity="none")
<i>LongId</i>	DM_DRC_SPARE3 (description="DM_DRC_SPARE3 [raw]", quantity="none")
<i>LongId</i>	HD_SEG_FLAG (description="HD_SEG_FLAG [raw]", quantity="none")
<i>StringId</i>	DM_FWPC_MOVING (description="DM_FWPC_MOVING", quantity="none")
<i>LongId</i>	DM_BOL_STATUS (description="DM_BOL_STATUS [raw]", quantity="none")
<i>StringId</i>	DM_CS1C_TASK_WR (description="DM_CS1C_TASK_WR", quantity="none")
<i>StringId</i>	DM_CS1C_SYNCHRO (description="DM_CS1C_SYNCHRO", quantity="none")
<i>LongId</i>	DM_B_SPEC_READ (description="DM_B_SPEC_READ [raw]", quantity="none")
<i>StringId</i>	DP_EV_DEC_SPC (description="DP_EV_DEC_SPC", quantity="none")
<i>DoubleId</i>	DM_SPU_VCC_VOL (description="DM_SPU_VCC_VOL [eng, V]", quantity="none")
<i>DoubleId</i>	DM_CHOPPER_TEMP (description="DM_CHOPPER_TEMP [eng, K]", quantity="none")
<i>StringId</i>	SPL_DMC_LINK (description="SPL_DMC_LINK", quantity="none")
<i>LongId</i>	DM_BPE_SPARE4 (description="DM_BPE_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DP_DEC_LINK_PE (description="DP_DEC_LINK_PE [raw]", quantity="none")
<i>LongId</i>	DP_TC_LOST (description="DP_TC_LOST [raw]", quantity="none")
<i>StringId</i>	DP_RED_SCIENCE (description="DP_RED_SCIENCE", quantity="none")
<i>DoubleId</i>	SPS_CPUWORKLOAD (description="SPS_CPUWORKLOAD [eng, %]", quantity="none")
<i>StringId</i>	DM_DBC_TASK_WR (description="DM_DBC_TASK_WR", quantity="none")
<i>StringId</i>	DM_GC_TASK_WR (description="DM_GC_TASK_WR", quantity="none")

<i>LongId</i>	HD_SRC_SEQ_CTN (description="HD_SRC_SEQ_CTN [raw]", quantity="none")
<i>StringId</i>	DM_CS2C_LOOP (description="DM_CS2C_LOOP", quantity="none")
<i>StringId</i>	DM_CS1C_UP (description="DM_CS1C_UP", quantity="none")
<i>StringId</i>	DM_CS1C_LOOP (description="DM_CS1C_LOOP", quantity="none")
<i>StringId</i>	DM_RPE_LINK (description="DM_RPE_LINK", quantity="none")
<i>LongId</i>	DM_DBC_SPARE3 (description="DM_DBC_SPARE3 [raw]", quantity="none")
<i>DoubleId</i>	DM_CS2_OUTPUT (description="DM_CS2_OUTPUT [eng, V]", quantity="none")
<i>LongId</i>	DM_RPE_SPARE4 (description="DM_RPE_SPARE4 [raw]", quantity="none")
<i>StringId</i>	DM_RPE_TASK_WR (description="DM_RPE_TASK_WR", quantity="none")
<i>DoubleId</i>	BOL_VGL_B_4 (description="BOL_VGL_B_4 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VGL_B_3 (description="BOL_VGL_B_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VGL_B_2 (description="BOL_VGL_B_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VGL_B_1 (description="BOL_VGL_B_1 [eng, V]", quantity="none")
<i>StringId</i>	DP_WHICH_OBCP (description="DP_WHICH_OBCP", quantity="none")
<i>StringId</i>	DM_CS1C_PID (description="DM_CS1C_PID", quantity="none")
<i>StringId</i>	DP_1553CHANNEL (description="DP_1553CHANNEL", quantity="none")
<i>LongId</i>	DM_CC_SPARE1B (description="DM_CC_SPARE1B [raw]", quantity="none")
<i>LongId</i>	DM_CC_SPARE1A (description="DM_CC_SPARE1A [raw]", quantity="none")
<i>LongId</i>	DM_DECB_CTRL_ST (description="DM_DECB_CTRL_ST [raw]", quantity="none")
<i>StringId</i>	DM_DBC_POWER (description="DM_DBC_POWER", quantity="none")
<i>LongId</i>	DP_COM_DMC_NACK (description="DP_COM_DMC_NACK [raw]", quantity="none")
<i>StringId</i>	DM_DRC_POWER (description="DM_DRC_POWER", quantity="none")
<i>LongId</i>	DP_SW_SUBVERS_ID (description="DP_SW_SUBVERS_ID [raw]", quantity="none")
<i>StringId</i>	DM_BPE_LINK (description="DM_BPE_LINK", quantity="none")
<i>StringId</i>	DM_FWSC_POWER (description="DM_FWSC_POWER", quantity="none")
<i>StringId</i>	DM_DBC_TASK_AL (description="DM_DBC_TASK_AL", quantity="none")

<i>StringId</i>	DM_GC_LL_UNLOCK (description="DM_GC_LL_UNLOCK", quantity="none")
<i>LongId</i>	DM_R_SPEC_READ (description="DM_R_SPEC_READ [raw]", quantity="none")
<i>LongId</i>	DM_DM_SF_IND (description="DM_DM_SF_IND [raw]", quantity="none")
<i>LongId</i>	DM_RED_PAC_ENC (description="DM_RED_PAC_ENC [raw]", quantity="none")
<i>LongId</i>	DM_CS2C_SPARE4 (description="DM_CS2C_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DM_CS2C_SPARE1 (description="DM_CS2C_SPARE1 [raw]", quantity="none")
<i>LongId</i>	DM_CS1C_SPARE1B (description="DM_CS1C_SPARE1B [raw]", quantity="none")
<i>LongId</i>	DM_DECB_REC_STA (description="DM_DECB_REC_STA [raw]", quantity="none")
<i>StringId</i>	DM_DRC_ERR_NS (description="DM_DRC_ERR_NS", quantity="none")
<i>DoubleId</i>	DM_REF_VOLT_5V (description="DM_REF_VOLT_5V [eng, V]", quantity="none")
<i>StringId</i>	DP_CONTROLLER (description="DP_CONTROLLER", quantity="none")
<i>LongId</i>	DM_CHOP_CTRL_ST (description="DM_CHOP_CTRL_ST [raw]", quantity="none")
<i>DoubleId</i>	BOL_VGL_R_2 (description="BOL_VGL_R_2 [eng, V]", quantity="none")
<i>LongId</i>	DP_COM_SPL_NACK (description="DP_COM_SPL_NACK [raw]", quantity="none")
<i>LongId</i>	SPL_CI (description="SPL_CI [raw]", quantity="none")
<i>DoubleId</i>	BOL_VGL_R_1 (description="BOL_VGL_R_1 [eng, V]", quantity="none")
<i>StringId</i>	DM_RSPU_TR_MODE (description="DM_RSPU_TR_MODE", quantity="none")
<i>LongId</i>	HD_SOURCE_TYPE (description="HD_SOURCE_TYPE [raw]", quantity="none")
<i>DoubleId</i>	BOL_HEAT_EV_SWT (description="BOL_HEAT_EV_SWT [eng, A]", quantity="none")
<i>LongId</i>	DM_HKD_ERROR (description="DM_HKD_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_SEQ_WAIT_IND (description="DM_SEQ_WAIT_IND [raw]", quantity="none")
<i>DoubleId</i>	BOL_VDECXH_B_1 (description="BOL_VDECXH_B_1 [eng, V]", quantity="none")
<i>StringId</i>	DM_BR_ERR_NS (description="DM_BR_ERR_NS", quantity="none")
<i>DoubleId</i>	BOL_TEMP_PSU_2 (description="BOL_TEMP_PSU_2 [eng, degC]", quantity="none")

<i>DoubleId</i>	BOL_VDECXH_B_3 (description="BOL_VDECXH_B_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_PSU_1 (description="BOL_TEMP_PSU_1 [eng, degC]", quantity="none")
<i>DoubleId</i>	DM_CS1_RES_VAL (description="DM_CS1_RES_VAL [eng, Ohm]", quantity="none")
<i>DoubleId</i>	BOL_VDECXH_B_2 (description="BOL_VDECXH_B_2 [eng, V]", quantity="none")
<i>LongId</i>	DM_FWSC_ERROR (description="DM_FWSC_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_CS2C_COMMUT (description="DM_CS2C_COMMUT", quantity="none")
<i>DoubleId</i>	BOL_VDECXH_B_4 (description="BOL_VDECXH_B_4 [eng, V]", quantity="none")
<i>LongId</i>	DP_SPUL_LINK_PE (description="DP_SPUL_LINK_PE [raw]", quantity="none")
<i>LongId</i>	DM_DPU_SEND_PAC (description="DM_DPU_SEND_PAC [raw]", quantity="none")
<i>StringId</i>	DP_DMC_LINK (description="DP_DMC_LINK", quantity="none")
<i>LongId</i>	DM_VID (description="DM_VID [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_V_PWR (description="DP_EV_BOL_V_PWR", quantity="none")
<i>LongId</i>	SPL_REAL (description="SPL_REAL [raw]", quantity="none")
<i>StringId</i>	DM_CS1C_ERR_NS (description="DM_CS1C_ERR_NS", quantity="none")
<i>StringId</i>	DM_GC_HOM_PROG (description="DM_GC_HOM_PROG", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_SP2 (description="DP_EV_BOL_I_SP2", quantity="none")
<i>LongId</i>	DM_CHOP_PID_ERR (description="DM_CHOP_PID_ERR [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_SP1 (description="DP_EV_BOL_I_SP1", quantity="none")
<i>StringId</i>	DP_COUNTER_DEC (description="DP_COUNTER_DEC", quantity="none")
<i>LongId</i>	DP_STATUS (description="DP_STATUS [raw]", quantity="none")
<i>LongId</i>	SPL_INTEG_RAMPS (description="SPL_INTEG_RAMPS [raw]", quantity="none")
<i>DoubleId</i>	DM_CS1_TARGET (description="DM_CS1_TARGET [eng, Ohm]", quantity="none")
<i>LongId</i>	DP_COM_REJ_DPU (description="DP_COM_REJ_DPU [raw]", quantity="none")
<i>LongId</i>	DM_DM_DF_IND (description="DM_DM_DF_IND [raw]", quantity="none")
<i>StringId</i>	DP_HK_MONITOR (description="DP_HK_MONITOR", quantity="none")
<i>StringId</i>	DM_CC_ERR_NS (description="DM_CC_ERR_NS", quantity="none")

<i>LongId</i>	SPS_INTEG_RAMPS (description="SPS_INTEG_RAMPS [raw]", quantity="none")
<i>LongId</i>	SPS_MAINT_RAMPS (description="SPS_MAINT_RAMPS [raw]", quantity="none")
<i>LongId</i>	DM_DECR_REC_STA (description="DM_DECR_REC_STA [raw]", quantity="none")
<i>StringId</i>	DM_DBC_ERR_NS (description="DM_DBC_ERR_NS", quantity="none")
<i>DoubleId</i>	DM_SPU_PSU_P15V (description="DM_SPU_PSU_P15V [eng, V]", quantity="none")
<i>LongId</i>	DM_CC_SPARE1C (description="DM_CC_SPARE1C [raw]", quantity="none")
<i>DoubleId</i>	DM_SPU_LWL_TEMP (description="DM_SPU_LWL_TEMP [eng, K]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_5 (description="DM_CUSTOM_ENT_5 [raw]", quantity="none")
<i>DoubleId</i>	BOL_VDECXH_R_2 (description="BOL_VDECXH_R_2 [eng, V]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_4 (description="DM_CUSTOM_ENT_4 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_7 (description="DM_CUSTOM_ENT_7 [raw]", quantity="none")
<i>LongId</i>	DP_DEC_LINK_DE (description="DP_DEC_LINK_DE [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_6 (description="DM_CUSTOM_ENT_6 [raw]", quantity="none")
<i>DoubleId</i>	BOL_VDECXH_R_1 (description="BOL_VDECXH_R_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_9 (description="DM_CUSTOM_ENT_9 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_8 (description="DM_CUSTOM_ENT_8 [raw]", quantity="none")
<i>StringId</i>	DP_HK_CHK (description="DP_HK_CHK", quantity="none")
<i>LongId</i>	DM_DECR_CTRL_ST (description="DM_DECR_CTRL_ST [raw]", quantity="none")
<i>LongId</i>	HD_DATA_FLAG (description="HD_DATA_FLAG [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_1 (description="DM_CUSTOM_ENT_1 [raw]", quantity="none")
<i>StringId</i>	DM_FWSC_SEARCHB (description="DM_FWSC_SEARCHB", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_3 (description="DM_CUSTOM_ENT_3 [raw]", quantity="none")
<i>StringId</i>	DM_FWSC_SEARCHA (description="DM_FWSC_SEARCHA", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_2 (description="DM_CUSTOM_ENT_2 [raw]", quantity="none")

<i>StringId</i>	DM_CS2C_ERR_NS (description="DM_CS2C_ERR_NS", quantity="none")
<i>LongId</i>	DM_CHOP_TARGET (description="DM_CHOP_TARGET [raw]", quantity="none")
<i>StringId</i>	DM_SEQ_TASK_WR (description="DM_SEQ_TASK_WR", quantity="none")
<i>StringId</i>	SPS_SATUR_FLAG (description="SPS_SATUR_FLAG", quantity="none")
<i>StringId</i>	DM_FWSP_CUR_POS (description="DM_FWSP_CUR_POS", quantity="none")
<i>StringId</i>	DP_EVENT_SPU (description="DP_EVENT_SPU", quantity="none")
<i>DoubleId</i>	BOL_CKRL_B_1 (description="BOL_CKRL_B_1 [eng, V]", quantity="none")
<i>StringId</i>	DM_DPUS_TASK_AL (description="DM_DPUS_TASK_AL", quantity="none")
<i>LongId</i>	DM_CS1_CTRL_STA (description="DM_CS1_CTRL_STA [raw]", quantity="none")
<i>StringId</i>	DM_DPUR_LINK (description="DM_DPUR_LINK", quantity="none")
<i>DoubleId</i>	DM_CS2_RES_VAL (description="DM_CS2_RES_VAL [eng, Ohm]", quantity="none")
<i>StringId</i>	DM_DRR_TASK_AL (description="DM_DRR_TASK_AL", quantity="none")
<i>DoubleId</i>	BOL_VDD_B_2 (description="BOL_VDD_B_2 [eng, V]", quantity="none")
<i>StringId</i>	DM_GC_LS (description="DM_GC_LS", quantity="none")
<i>StringId</i>	DM_CS2C_TASK_AL (description="DM_CS2C_TASK_AL", quantity="none")
<i>DoubleId</i>	DP_WORK_LOAD (description="DP_WORK_LOAD [eng, %]", quantity="none")
<i>DoubleId</i>	BOL_VDD_B_3 (description="BOL_VDD_B_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VDD_B_4 (description="BOL_VDD_B_4 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VINJ_R_2 (description="BOL_VINJ_R_2 [eng, V]", quantity="none")
<i>LongId</i>	DP_HK_LOST (description="DP_HK_LOST [raw]", quantity="none")
<i>DoubleId</i>	BOL_VINJ_R_1 (description="BOL_VINJ_R_1 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_GRATING_TEMP (description="DM_GRATING_TEMP [eng, K]", quantity="none")
<i>DoubleId</i>	BOL_VDD_B_1 (description="BOL_VDD_B_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VH_BLIND_R1 (description="BOL_VH_BLIND_R1 [eng, V]", quantity="none")

<i>DoubleId</i>	BOL_VH_BLIND_R2 (description="BOL_VH_BLIND_R2 [eng, V]", quantity="none")
<i>LongId</i>	DM_DRR_SPARE2 (description="DM_DRR_SPARE2 [raw]", quantity="none")
<i>DoubleId</i>	BOL_VINJ_B_4 (description="BOL_VINJ_B_4 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VDD_R_2 (description="BOL_VDD_R_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VINJ_B_3 (description="BOL_VINJ_B_3 [eng, V]", quantity="none")
<i>LongId</i>	DM_DRC_ERROR (description="DM_DRC_ERROR [raw]", quantity="none")
<i>DoubleId</i>	BOL_VINJ_B_2 (description="BOL_VINJ_B_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VINJ_B_1 (description="BOL_VINJ_B_1 [eng, V]", quantity="none")
<i>StringId</i>	DM_FWSC_POSC_B (description="DM_FWSC_POSC_B", quantity="none")
<i>StringId</i>	DM_FWSC_POSC_A (description="DM_FWSC_POSC_A", quantity="none")
<i>DoubleId</i>	BOL_VDD_R_1 (description="BOL_VDD_R_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_EV_SWT (description="BOL_TEMP_EV_SWT [eng, K]", quantity="none")
<i>LongId</i>	HD_PCKT_SUBTYPE (description="HD_PCKT_SUBTYPE [raw]", quantity="none")
<i>StringId</i>	SPL_SATUR_FLAG (description="SPL_SATUR_FLAG", quantity="none")
<i>LongId</i>	DM_DBC_ERROR (description="DM_DBC_ERROR [raw]", quantity="none")
<i>StringId</i>	DP_AF_24_SPARE (description="DP_AF_24_SPARE", quantity="none")
<i>DoubleId</i>	DM_DCDC_TEMP (description="DM_DCDC_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DP_1355_HANDLER (description="DP_1355_HANDLER", quantity="none")
<i>StringId</i>	DM_DRR_SIM_TIME (description="DM_DRR_SIM_TIME", quantity="none")
<i>LongId</i>	HD_PUS_VERSION (description="HD_PUS_VERSION [raw]", quantity="none")
<i>LongId</i>	DP_SPARE (description="DP_SPARE [raw]", quantity="none")
<i>DoubleId</i>	BOL_VSMSL_R_1 (description="BOL_VSMSL_R_1 [eng, V]", quantity="none")
<i>StringId</i>	DM_FWSC_POS_B (description="DM_FWSC_POS_B", quantity="none")
<i>LongId</i>	DP_SW_VERS_ID (description="DP_SW_VERS_ID [raw]", quantity="none")

<i>DoubleId</i>	BOL_VSMSL_R_2 (description="BOL_VSMSL_R_2 [eng, V]", quantity="none")
<i>StringId</i>	DM_FWSC_ERR_NS (description="DM_FWSC_ERR_NS", quantity="none")
<i>StringId</i>	DM_FWSC_POS_A (description="DM_FWSC_POS_A", quantity="none")
<i>StringId</i>	DP_SPUL_HK (description="DP_SPUL_HK", quantity="none")
<i>LongId</i>	DM_BOL_REC_PAC (description="DM_BOL_REC_PAC [raw]", quantity="none")
<i>StringId</i>	DP_COUNTER_SPEC (description="DP_COUNTER_SPEC", quantity="none")
<i>LongId</i>	DP_EVENT_LOST (description="DP_EVENT_LOST [raw]", quantity="none")
<i>LongId</i>	SPS_OBSID (description="SPS_OBSID [raw]", quantity="none")
<i>DoubleId</i>	BOL_VSMSL_B_4 (description="BOL_VSMSL_B_4 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_CS2_TARGET (description="DM_CS2_TARGET [eng, Ohm]", quantity="none")
<i>DoubleId</i>	BOL_VSMSL_B_3 (description="BOL_VSMSL_B_3 [eng, V]", quantity="none")
<i>StringId</i>	DM_DRR_LINK (description="DM_DRR_LINK", quantity="none")
<i>StringId</i>	DM_DBR_TASK_WR (description="DM_DBR_TASK_WR", quantity="none")
<i>StringId</i>	DP_EVENT_DPU (description="DP_EVENT_DPU", quantity="none")
<i>StringId</i>	DM_BC_TASK_WR (description="DM_BC_TASK_WR", quantity="none")
<i>DoubleId</i>	BOL_VSMSL_B_2 (description="BOL_VSMSL_B_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VSMSL_B_1 (description="BOL_VSMSL_B_1 [eng, V]", quantity="none")
<i>StringId</i>	DP_INIT (description="DP_INIT", quantity="none")
<i>DoubleId</i>	BOL_VDL_BU_R_1 (description="BOL_VDL_BU_R_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_PLL_RES_LO (description="DM_PLL_RES_LO [raw]", quantity="none")
<i>DoubleId</i>	BOL_VDDPRO_CLR1 (description="BOL_VDDPRO_CLR1 [eng, V]", quantity="none")
<i>LongId</i>	SPL_MEM_CNTS (description="SPL_MEM_CNTS [raw]", quantity="none")
<i>DoubleId</i>	BOL_VDDPRO_CLR2 (description="BOL_VDDPRO_CLR2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VDL_BU_R_2 (description="BOL_VDL_BU_R_2 [eng, V]", quantity="none")
<i>LongId</i>	DP_AF_STATUS (description="DP_AF_STATUS [raw]", quantity="none")
<i>StringId</i>	DM_CC_DOWN (description="DM_CC_DOWN", quantity="none")

<i>DoubleId</i>	DM_CHOP_OUTPUT (description="DM_CHOP_OUTPUT [eng, mA]", quantity="none")
<i>StringId</i>	DP_TM_RATE (description="DP_TM_RATE", quantity="none")
<i>DoubleId</i>	BOL_VDL_BU_B_4 (description="BOL_VDL_BU_B_4 [eng, V]", quantity="none")
<i>StringId</i>	DP_DMC_HK (description="DP_DMC_HK", quantity="none")
<i>DoubleId</i>	BOL_I_VSS_BU_R2 (description="BOL_I_VSS_BU_R2 [eng, A]", quantity="none")
<i>DoubleId</i>	BOL_I_VSS_BU_R1 (description="BOL_I_VSS_BU_R1 [eng, A]", quantity="none")
<i>DoubleId</i>	BOL_VDL_BU_B_1 (description="BOL_VDL_BU_B_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VDL_BU_B_3 (description="BOL_VDL_BU_B_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VDL_BU_B_2 (description="BOL_VDL_BU_B_2 [eng, V]", quantity="none")

5.1.22. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product (type="RST", description="Raw SPIRE Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")

StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	type (description="Product Type Identification", quantity="arcsec/year")
StringParameter	description (description="Name of this product", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec/year")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec/year")
<i>Columns</i>	
<i>table dataset</i>	(name="NHK", description="Nominal HK Parameter Report")
<i>Metadata</i>	
<i>Columns</i>	
<i>ShortId</i>	NHK_VERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_TYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_DFHFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_APID (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SEGFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SSC (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTLEN (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PUSVERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTTYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTSTYPE (description="Parameter Value", quantity="1")
<i>LongId</i>	NHK_PKTCTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTFTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	BBFULLTYPE (description="Parameter Value", quantity="1")
<i>IntId</i>	MODE (description="Parameter Value", quantity="1")
<i>IntId</i>	STEP (description="Parameter Value", quantity="1")
<i>LongId</i>	THSK (description="Parameter Value", quantity="1")
<i>LongId</i>	TRESET (description="Parameter Value", quantity="1")
<i>IntId</i>	TCRECV (description="Parameter Value", quantity="1")

<i>Int1d</i>	TCRECN (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCEXEC (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCEXEN (description="Parameter Value", quantity="1")
<i>Int1d</i>	TM1N (description="Parameter Value", quantity="1")
<i>Int1d</i>	TM2N (description="Parameter Value", quantity="1")
<i>Int1d</i>	TM3N (description="Parameter Value", quantity="1")
<i>Int1d</i>	TM4N (description="Parameter Value", quantity="1")
<i>Int1d</i>	TM5N (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUFRAMECNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUFRAMECNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMECNT (description="Parameter Value", quantity="1")
<i>Long1d</i>	TSYNC (description="Parameter Value", quantity="1")
<i>Long1d</i>	TDIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT_1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT_2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT_3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MONSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	DCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	DCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Short1d</i>	SCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	BBCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VMSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM1STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM2STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM3STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VMSTATAFX (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE0 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS0 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUM15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CPULOAD (description="Parameter Value", quantity="1")

<i>LongId</i>	LSLOAD (description="Parameter Value", quantity="1")
<i>IntId</i>	DPUP2_5V (description="Parameter Value", quantity="1")
<i>IntId</i>	DCUDATAMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	DCUDATAFRMS (description="Parameter Value", quantity="1")
<i>IntId</i>	DCUDATASTAT (description="Parameter Value", quantity="1")
<i>IntId</i>	PHOTBIASDIV (description="Parameter Value", quantity="1")
<i>IntId</i>	PHOTBIASMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	PHOTMCLKDIV (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWBIAS (description="Parameter Value", quantity="1")
<i>IntId</i>	PMWBIAS (description="Parameter Value", quantity="1")
<i>IntId</i>	PLWBIAS (description="Parameter Value", quantity="1")
<i>IntId</i>	TCBIAS (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWPHASE (description="Parameter Value", quantity="1")
<i>IntId</i>	PMWPHASE (description="Parameter Value", quantity="1")
<i>IntId</i>	PLWPHASE (description="Parameter Value", quantity="1")
<i>IntId</i>	TCPHASE (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFETSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	PSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>ShortId</i>	PSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>ShortId</i>	PSW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>ShortId</i>	PSW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>ShortId</i>	PSW_VDD_JFET5 (description="Parameter Value", quantity="1")
<i>ShortId</i>	PSW_VDD_JFET6 (description="Parameter Value", quantity="1")
<i>IntId</i>	PMLWJFETSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	PMW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>ShortId</i>	PMW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>ShortId</i>	PMW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>ShortId</i>	PMW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>ShortId</i>	PLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>ShortId</i>	PLW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>ShortId</i>	TC_VDD_JFET (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET1V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET2V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET3V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET4V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET5V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET6V (description="Parameter Value", quantity="1")
<i>IntId</i>	PMWJFET1V (description="Parameter Value", quantity="1")
<i>IntId</i>	PMWJFET2V (description="Parameter Value", quantity="1")
<i>IntId</i>	PMWJFET3V (description="Parameter Value", quantity="1")
<i>IntId</i>	PMWJFET4V (description="Parameter Value", quantity="1")
<i>IntId</i>	PLWJFET1V (description="Parameter Value", quantity="1")

<i>Int1d</i>	PLWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCJFETV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	OBSVER (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	TMMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	FIFO_DF_FLAG (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP9TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP8TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP7TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP6TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP5TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP4TEMP (description="Parameter Value", quantity="1")

<i>Int1d</i>	LIAP3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	DAQTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIASSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP1STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP2STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP3STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP4STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP5STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP6STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP7STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP8STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP9STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS1STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS2STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS3STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUIFSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUIFCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSSDEL (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP14V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUM14V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUM15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUMACTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUBSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTLSW (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTMSW (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM10TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUFRAMESTART (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM12TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUFRAMES (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM14TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM15TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTMSTATUS (description="Parameter Value", quantity="1")

<i>Int1d</i>	MCUBOOTSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUDLOADCONF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLOSTCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCPCR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLATCHSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANSTART (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANEND (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANFSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTTHRESH (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORBEMF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECFLAG (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECLVDTSIGN (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECINIT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANDIR (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANCNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTACSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTDCSIG (description="Parameter Value", quantity="1")

<i>Int1d</i>	SMECTRAJPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECPOSNDELTA (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCFINEPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMEANSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSKANPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG1AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG1OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG2AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG2OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG3AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG3OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPSENSPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSN2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPINTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFGAINDIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDIFFTC1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDIFFTC2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTIND (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGGCUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDACVAL (description="Parameter Value", quantity="1")

<i>Int1d</i>	CHOPMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGSENSPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSN2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGINTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGFFGAINDIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDIFFTC1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDIFFTC2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTIND (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGCHOPCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM01 (description="Parameter Value", quantity="1")

<i>Int1d</i>	MCUPCKT14PARM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM10 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM14 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSSDEL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTEMPSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBITSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	CCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMECONF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMESTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHT2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTGND (description="Parameter Value", quantity="1")

<i>Int1d</i>	PCALCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHRTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVAPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SHUNTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EMCFILTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	OPTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BAFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCALTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTTCBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTVBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTHKBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTSDBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTNTBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_HP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_LP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT10STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT12STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT14STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT15STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMINTEGRITY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTPROG (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTDATA (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPROM2RAMCOPY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBOOTMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSELETTAB (description="Parameter Value", quantity="1")

<i>Int1d</i>	CREC_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PTC_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGLE_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTRPBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAFAILCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG1OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG2OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	TABLE7_09_LWORD (description="Parameter Value", quantity="1")
<i>Long1d</i>	PTC_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	SCAL_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	TABLE7_12 (description="Parameter Value", quantity="1")
<i>Short1d</i>	HK_MON_STATUS (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGG_DCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_10 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_14 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_15 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_16 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_17 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_18 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_19 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_20 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_21 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_22 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_23 (description="Parameter Value", quantity="1")
<i>Long1d</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>Long1d</i>	packetTime (description="TM packet time", quantity="1")
<i>Int1d</i>	seqCount (description="Sequence count", quantity="1")
	()

<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.23. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product (type="RST", description="Raw SPIRE Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")

StringParameter	type (description="Product Type Identification", quantity="arcsec/year")
StringParameter	description (description="Name of this product", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec/year")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec/year")
<i>Columns</i>	
<i>table dataset</i>	(name="NHK", description="Nominal HK Parameter Report")
<i>Metadata</i>	
<i>Columns</i>	
<i>ShortId</i>	NHK_VERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_TYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_DFHFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_APID (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SEGFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SSC (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTLEN (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PUSVERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTTYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTSTYPE (description="Parameter Value", quantity="1")
<i>LongId</i>	NHK_PKTCTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTFTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	BBFULLTYPE (description="Parameter Value", quantity="1")
<i>IntId</i>	MODE (description="Parameter Value", quantity="1")
<i>IntId</i>	STEP (description="Parameter Value", quantity="1")
<i>LongId</i>	THSK (description="Parameter Value", quantity="1")
<i>LongId</i>	TRESET (description="Parameter Value", quantity="1")
<i>IntId</i>	TCRECV (description="Parameter Value", quantity="1")
<i>IntId</i>	TCRECN (description="Parameter Value", quantity="1")
<i>IntId</i>	TCEXEC (description="Parameter Value", quantity="1")
<i>IntId</i>	TCEXEN (description="Parameter Value", quantity="1")
<i>IntId</i>	TM1N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM2N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM3N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM4N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM5N (description="Parameter Value", quantity="1")
<i>IntId</i>	DCUFRAMECNT (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUFRAMECNT (description="Parameter Value", quantity="1")
<i>IntId</i>	SCUFRAMECNT (description="Parameter Value", quantity="1")
<i>LongId</i>	TSYNC (description="Parameter Value", quantity="1")
<i>LongId</i>	TDIFF (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT_1 (description="Parameter Value", quantity="1")

<i>Int1d</i>	MEMSTAT_2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT_3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MONSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	DCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	DCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Short1d</i>	SCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	BBCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VMSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM1STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM2STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM3STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VMSTATAFX (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE0 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS0 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUM15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CPULOAD (description="Parameter Value", quantity="1")
<i>Long1d</i>	LSLOAD (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAFRMS (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATASTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWPHASE (description="Parameter Value", quantity="1")

<i>Int1d</i>	PLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET5 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET6 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMLWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	TC_VDD_JFET (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET3V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET6V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET3V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCJFETV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET2 (description="Parameter Value", quantity="1")

<i>Int1d</i>	SSWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	OBSVER (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	TMMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	FIFO_DF_FLAG (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP9TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP8TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP7TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP6TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP5TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	DAQTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIASSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP1STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP2STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP3STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP4STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP5STAT (description="Parameter Value", quantity="1")

<i>ShortId</i>	LIAP6STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP7STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP8STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP9STAT (description="Parameter Value", quantity="1")
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<i>ShortId</i>	LIAS2STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAS3STAT (description="Parameter Value", quantity="1")
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<i>IntId</i>	MCUIFCTRL (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUSSDEL (description="Parameter Value", quantity="1")
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<i>IntId</i>	MCUP14V (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUM14V (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUP15V (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUM15V (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUMACTEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUSMECTEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUBSMTEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUERR (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUSCHEDCNTLSW (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUSCHEDCNTMSW (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUTM10TSAMPLE (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUFRAMESTART (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUTM12TSAMPLE (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUFRAMES (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUTM14TSAMPLE (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUTM15TSAMPLE (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUTMSTATUS (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUBOOTSTAT (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUDLOADCONF (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECLOSTCOUNT (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECENCPOWER (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECLVDPWR (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECLATCHSTAT (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECLOOPMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	SCANSTART (description="Parameter Value", quantity="1")
<i>IntId</i>	SCANEND (description="Parameter Value", quantity="1")
<i>IntId</i>	SCANFSPEED (description="Parameter Value", quantity="1")
<i>IntId</i>	SCANS (description="Parameter Value", quantity="1")
<i>IntId</i>	SCANMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECKP (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECKD (description="Parameter Value", quantity="1")

<i>Int1d</i>	SMECDFILT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTTHRESH (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORBEMF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECFLAG (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECLVDTSIGN (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECINIT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANDIR (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANCNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTAC SIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTDC SIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTRAJPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECPOSNDELTA (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC FINEPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMEANSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSCANPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG1AMP (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECENC SIG3AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG3OFF (description="Parameter Value", quantity="1")

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<i>Int1d</i>	CHOPPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSN2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKI (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOPFFGAIN (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOPDIFFTC1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDIFFTC2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTIND (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGGCUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGSENSPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSN2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKI (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGINTLIMIT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTIND (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGRATESCALE (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGCHOPCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTORCURR (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT10PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM04 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT12PARAM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM10 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT14PARAM12 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT14PARAM14 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCUIFCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSSDEL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTEMPSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBITSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHTRV (description="Parameter Value", quantity="1")
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<i>Int1d</i>	TCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMECONF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMESTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHT2_5V (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCUCHTGND (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCAL2CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHRTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVAPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SHUNTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EMCFILTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	OPTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BAFTEMP (description="Parameter Value", quantity="1")

<i>Int1d</i>	BSMIFTEMP (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCAL4TEMP (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTGND (description="Parameter Value", quantity="1")
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<i>Int1d</i>	LOSTEVBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTHKBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTSDBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTNTBLOCK (description="Parameter Value", quantity="1")
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<i>Int1d</i>	LS_LP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT10STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT12STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT14STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT15STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMINTEGRITY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTPROG (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTDATA (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPROM2RAMCOPY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBOOTMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSELECTTAB (description="Parameter Value", quantity="1")
<i>Int1d</i>	CREC_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PTC_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGLE_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTRPBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAFAILCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG1OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG2OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	TABLE7_09_LWORD (description="Parameter Value", quantity="1")
<i>Long1d</i>	PTC_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	SCAL_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	TABLE7_12 (description="Parameter Value", quantity="1")
<i>Short1d</i>	HK_MON_STATUS (description="Parameter Value", quantity="1")

<i>Int1d</i>	CHOPJIGG_DCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_10 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_14 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_15 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_16 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_17 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_18 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_19 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_20 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_21 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_22 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_23 (description="Parameter Value", quantity="1")
<i>Long1d</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>Long1d</i>	packetTime (description="TM packet time", quantity="1")
<i>Int1d</i>	seqCount (description="Sequence count", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="CHK", description="Critical HK Parameter Report")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.24. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product (type="RST", description="Raw SPIRE Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")

StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	type (description="Product Type Identification", quantity="arcsec/year")
StringParameter	description (description="Name of this product", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec/year")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec/year")
<i>Columns</i>	
<i>table dataset</i>	(name="NHK", description="Nominal HK Parameter Report")

<i>Metadata</i>	
<i>Columns</i>	
<i>ShortId</i>	NHK_VERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_TYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_DFHFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_APID (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SEGFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SSC (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTLEN (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PUSVERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTTYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTSTYPE (description="Parameter Value", quantity="1")
<i>LongId</i>	NHK_PKTCTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTFTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	BBFULLTYPE (description="Parameter Value", quantity="1")
<i>IntId</i>	MODE (description="Parameter Value", quantity="1")
<i>IntId</i>	STEP (description="Parameter Value", quantity="1")
<i>LongId</i>	THSK (description="Parameter Value", quantity="1")
<i>LongId</i>	TRESET (description="Parameter Value", quantity="1")
<i>IntId</i>	TCRECV (description="Parameter Value", quantity="1")
<i>IntId</i>	TCRECN (description="Parameter Value", quantity="1")
<i>IntId</i>	TCEXEC (description="Parameter Value", quantity="1")
<i>IntId</i>	TCEXEN (description="Parameter Value", quantity="1")
<i>IntId</i>	TM1N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM2N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM3N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM4N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM5N (description="Parameter Value", quantity="1")
<i>IntId</i>	DCUFRAMECNT (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUFRAMECNT (description="Parameter Value", quantity="1")
<i>IntId</i>	SCUFRAMECNT (description="Parameter Value", quantity="1")
<i>LongId</i>	TSYNC (description="Parameter Value", quantity="1")
<i>LongId</i>	TDIFF (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT_1 (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT_2 (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT_3 (description="Parameter Value", quantity="1")
<i>IntId</i>	MONSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	DCULSIFSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	DCUHSIFMODE (description="Parameter Value", quantity="1")
<i>ShortId</i>	MCULSIFSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	MCUHSIFMODE (description="Parameter Value", quantity="1")
<i>ShortId</i>	SCULSIFSTAT (description="Parameter Value", quantity="1")

<i>ShortId</i>	SCUHSMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	BBCOUNT (description="Parameter Value", quantity="1")
<i>IntId</i>	VMSTAT (description="Parameter Value", quantity="1")
<i>IntId</i>	VM1STAT (description="Parameter Value", quantity="1")
<i>IntId</i>	VM2STAT (description="Parameter Value", quantity="1")
<i>IntId</i>	VM3STAT (description="Parameter Value", quantity="1")
<i>IntId</i>	VMSTATAFX (description="Parameter Value", quantity="1")
<i>IntId</i>	SD_VALUE0 (description="Parameter Value", quantity="1")
<i>IntId</i>	SD_ADDRESS0 (description="Parameter Value", quantity="1")
<i>IntId</i>	SD_VALUE1 (description="Parameter Value", quantity="1")
<i>IntId</i>	SD_ADDRESS1 (description="Parameter Value", quantity="1")
<i>IntId</i>	SD_VALUE2 (description="Parameter Value", quantity="1")
<i>IntId</i>	SD_ADDRESS2 (description="Parameter Value", quantity="1")
<i>IntId</i>	SD_VALUE3 (description="Parameter Value", quantity="1")
<i>IntId</i>	SD_ADDRESS3 (description="Parameter Value", quantity="1")
<i>IntId</i>	DPUP5V (description="Parameter Value", quantity="1")
<i>IntId</i>	DPUP15V (description="Parameter Value", quantity="1")
<i>IntId</i>	DPUM15V (description="Parameter Value", quantity="1")
<i>IntId</i>	DPUTEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	CPULOAD (description="Parameter Value", quantity="1")
<i>LongId</i>	LSLOAD (description="Parameter Value", quantity="1")
<i>IntId</i>	DPUP2_5V (description="Parameter Value", quantity="1")
<i>IntId</i>	DCUDATAMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	DCUDATAFRMS (description="Parameter Value", quantity="1")
<i>IntId</i>	DCUDATASTAT (description="Parameter Value", quantity="1")
<i>IntId</i>	PHOTBIASDIV (description="Parameter Value", quantity="1")
<i>IntId</i>	PHOTBIASMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	PHOTMCLKDIV (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWBIAS (description="Parameter Value", quantity="1")
<i>IntId</i>	PMWBIAS (description="Parameter Value", quantity="1")
<i>IntId</i>	PLWBIAS (description="Parameter Value", quantity="1")
<i>IntId</i>	TCBIAS (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWPHASE (description="Parameter Value", quantity="1")
<i>IntId</i>	PMWPHASE (description="Parameter Value", quantity="1")
<i>IntId</i>	PLWPHASE (description="Parameter Value", quantity="1")
<i>IntId</i>	TCPHASE (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFETSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	PSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>ShortId</i>	PSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>ShortId</i>	PSW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>ShortId</i>	PSW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>ShortId</i>	PSW_VDD_JFET5 (description="Parameter Value", quantity="1")

<i>ShortId</i>	PSW_VDD_JFET6 (description="Parameter Value", quantity="1")
<i>IntId</i>	PMLWJFETSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	PMW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>ShortId</i>	PMW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>ShortId</i>	PMW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>ShortId</i>	PMW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>ShortId</i>	PLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>ShortId</i>	PLW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>ShortId</i>	TC_VDD_JFET (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET1V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET2V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET3V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET4V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET5V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET6V (description="Parameter Value", quantity="1")
<i>IntId</i>	PMWJFET1V (description="Parameter Value", quantity="1")
<i>IntId</i>	PMWJFET2V (description="Parameter Value", quantity="1")
<i>IntId</i>	PMWJFET3V (description="Parameter Value", quantity="1")
<i>IntId</i>	PMWJFET4V (description="Parameter Value", quantity="1")
<i>IntId</i>	PLWJFET1V (description="Parameter Value", quantity="1")
<i>IntId</i>	PLWJFET2V (description="Parameter Value", quantity="1")
<i>IntId</i>	PHOTHTRV (description="Parameter Value", quantity="1")
<i>IntId</i>	TCJFETV (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECBIASDIV (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECBIASMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECMCLKDIV (description="Parameter Value", quantity="1")
<i>IntId</i>	SSWBIAS (description="Parameter Value", quantity="1")
<i>IntId</i>	SLWBIAS (description="Parameter Value", quantity="1")
<i>IntId</i>	SSWPHASE (description="Parameter Value", quantity="1")
<i>IntId</i>	SLWPHASE (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECJFETSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	SLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>ShortId</i>	SSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>ShortId</i>	SSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>IntId</i>	SSWJFET1V (description="Parameter Value", quantity="1")
<i>IntId</i>	SSWJFET2V (description="Parameter Value", quantity="1")
<i>IntId</i>	SLWJFET1V (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECHTRV (description="Parameter Value", quantity="1")
<i>IntId</i>	TC1TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	TC2TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	TC3TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	BIASP5V (description="Parameter Value", quantity="1")

<i>Int1d</i>	BIASP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	OBSVER (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	TMMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	FIFO_DF_FLAG (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP9TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP8TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP7TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP6TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP5TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	DAQTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIASSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP1STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP2STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP3STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP4STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP5STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP6STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP7STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP8STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP9STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS1STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS2STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS3STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUIFSTAT (description="Parameter Value", quantity="1")

<i>Int1d</i>	MCUIFCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSSDEL (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP14V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUM14V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUM15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUMACTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUBSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTLSW (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTMSW (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM10TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUFRAMESTART (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM12TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUFRAMES (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM14TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM15TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTMSTATUS (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUBOOTSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUDLOADCONF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLOSTCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLATCHSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANSTART (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANEND (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANFSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTTHRESH (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFOFFSET (description="Parameter Value", quantity="1")

<i>Int1d</i>	SCANRSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORBEMF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECFLAG (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECLVDTSIGN (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECINIT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANDIR (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANCNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTACSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTDCSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTRAJPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECPOSNDELTA (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCFINEPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMEANSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSCANPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG1AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG1OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG2AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG2OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG3AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG3OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPSENSPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSN2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKD (description="Parameter Value", quantity="1")

<i>Int1d</i>	CHOPKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPINTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFGAINDIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDIFFTC1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDIFFTC2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTIND (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGGCUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGSENSPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSN2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGINTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGFFGAINDIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDIFFTC1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDIFFTC2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTIND (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSNSCALE (description="Parameter Value", quantity="1")

<i>Int1d</i>	JIGGBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGCHOPCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM10 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM14 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSSDEL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTEMPSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBITSTAT (description="Parameter Value", quantity="1")

<i>Int1d</i>	SCUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	CCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMECONF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMESTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHT2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHTRTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVAPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SHUNTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EMCFILTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	OPTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BAFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCALTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKTEMP (description="Parameter Value", quantity="1")

<i>Int1d</i>	SCUTHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTTCBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTVBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTHKBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTSDBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTNTBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_HP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_LP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT10STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT12STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT14STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT15STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMINTEGRITY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTPROG (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTDATA (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPROM2RAMCOPY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBOOTMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSELECTTAB (description="Parameter Value", quantity="1")
<i>Int1d</i>	CREC_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PTC_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGLE_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTRPBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAFAILCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG1OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG2OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	TABLE7_09_LWORD (description="Parameter Value", quantity="1")
<i>Long1d</i>	PTC_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	SCAL_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	TABLE7_12 (description="Parameter Value", quantity="1")
<i>Short1d</i>	HK_MON_STATUS (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGG_DCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_09 (description="Parameter Value", quantity="1")

<i>Int1d</i>	HK_10 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_14 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_15 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_16 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_17 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_18 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_19 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_20 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_21 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_22 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_23 (description="Parameter Value", quantity="1")
<i>Long1d</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>Long1d</i>	packetTime (description="TM packet time", quantity="1")
<i>Int1d</i>	seqCount (description="Sequence count", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="CHK", description="Critical HK Parameter Report")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="PHOTF", description="Photometer Full Array (Nominal Science Report)")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.25. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product (type="RST", description="Raw SPIRE Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")

DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	type (description="Product Type Identification", quantity="arcsec/year")
StringParameter	description (description="Name of this product", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec/year")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec/year")
<i>Columns</i>	
<i>table dataset</i>	(name="NHK", description="Nominal HK Parameter Report")
<i>Metadata</i>	
<i>Columns</i>	
<i>ShortId</i>	NHK_VERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_TYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_DFHFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_APIID (description="Parameter Value", quantity="1")

<i>ShortId</i>	NHK_SEGFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SSC (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTLEN (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PUSVERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTTYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTSTYPE (description="Parameter Value", quantity="1")
<i>LongId</i>	NHK_PKTCTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTFTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	BBFULLTYPE (description="Parameter Value", quantity="1")
<i>IntId</i>	MODE (description="Parameter Value", quantity="1")
<i>IntId</i>	STEP (description="Parameter Value", quantity="1")
<i>LongId</i>	THSK (description="Parameter Value", quantity="1")
<i>LongId</i>	TRESET (description="Parameter Value", quantity="1")
<i>IntId</i>	TCRECV (description="Parameter Value", quantity="1")
<i>IntId</i>	TCRECN (description="Parameter Value", quantity="1")
<i>IntId</i>	TCEXEC (description="Parameter Value", quantity="1")
<i>IntId</i>	TCEXEN (description="Parameter Value", quantity="1")
<i>IntId</i>	TM1N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM2N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM3N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM4N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM5N (description="Parameter Value", quantity="1")
<i>IntId</i>	DCUFRAMECNT (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUFRAMECNT (description="Parameter Value", quantity="1")
<i>IntId</i>	SCUFRAMECNT (description="Parameter Value", quantity="1")
<i>LongId</i>	TSYNC (description="Parameter Value", quantity="1")
<i>LongId</i>	TDIFF (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT_1 (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT_2 (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT_3 (description="Parameter Value", quantity="1")
<i>IntId</i>	MONSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	DCULSIFSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	DCUHSIFMODE (description="Parameter Value", quantity="1")
<i>ShortId</i>	MCULSIFSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	MCUHSIFMODE (description="Parameter Value", quantity="1")
<i>ShortId</i>	SCULSIFSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	SCUHSIFMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	BBCOUNT (description="Parameter Value", quantity="1")
<i>IntId</i>	VMSTAT (description="Parameter Value", quantity="1")
<i>IntId</i>	VM1STAT (description="Parameter Value", quantity="1")
<i>IntId</i>	VM2STAT (description="Parameter Value", quantity="1")
<i>IntId</i>	VM3STAT (description="Parameter Value", quantity="1")

<i>Int1d</i>	VMSTATAFX (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE0 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS0 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUM15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CPULOAD (description="Parameter Value", quantity="1")
<i>Long1d</i>	LSLOAD (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAFRMS (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATASTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET5 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET6 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMLWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET4 (description="Parameter Value", quantity="1")

<i>ShortId</i>	PLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>ShortId</i>	PLW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>ShortId</i>	TC_VDD_JFET (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET1V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET2V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET3V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET4V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET5V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET6V (description="Parameter Value", quantity="1")
<i>IntId</i>	PMWJFET1V (description="Parameter Value", quantity="1")
<i>IntId</i>	PMWJFET2V (description="Parameter Value", quantity="1")
<i>IntId</i>	PMWJFET3V (description="Parameter Value", quantity="1")
<i>IntId</i>	PMWJFET4V (description="Parameter Value", quantity="1")
<i>IntId</i>	PLWJFET1V (description="Parameter Value", quantity="1")
<i>IntId</i>	PLWJFET2V (description="Parameter Value", quantity="1")
<i>IntId</i>	PHOTHTRV (description="Parameter Value", quantity="1")
<i>IntId</i>	TCJFETV (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECBIASDIV (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECBIASMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECMCLKDIV (description="Parameter Value", quantity="1")
<i>IntId</i>	SSWBIAS (description="Parameter Value", quantity="1")
<i>IntId</i>	SLWBIAS (description="Parameter Value", quantity="1")
<i>IntId</i>	SSWPHASE (description="Parameter Value", quantity="1")
<i>IntId</i>	SLWPHASE (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECJFETSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	SLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>ShortId</i>	SSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>ShortId</i>	SSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>IntId</i>	SSWJFET1V (description="Parameter Value", quantity="1")
<i>IntId</i>	SSWJFET2V (description="Parameter Value", quantity="1")
<i>IntId</i>	SLWJFET1V (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECHTRV (description="Parameter Value", quantity="1")
<i>IntId</i>	TC1TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	TC2TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	TC3TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	BIASP5V (description="Parameter Value", quantity="1")
<i>IntId</i>	BIASP9V (description="Parameter Value", quantity="1")
<i>IntId</i>	BIASM9V (description="Parameter Value", quantity="1")
<i>IntId</i>	OBSVER (description="Parameter Value", quantity="1")
<i>ShortId</i>	OBSVER1 (description="Parameter Value", quantity="1")
<i>ShortId</i>	OBSVER2 (description="Parameter Value", quantity="1")
<i>ShortId</i>	OBSVER3 (description="Parameter Value", quantity="1")

<i>Int1d</i>	TMMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	FIFO_DF_FLAG (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAM9V (description="Parameter Value", quantity="1")
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<i>Int1d</i>	LIAP5TEMP (description="Parameter Value", quantity="1")
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<i>Int1d</i>	LIAP2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS2TEMP (description="Parameter Value", quantity="1")
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<i>Int1d</i>	DAQTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIASSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP1STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP2STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP3STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP4STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP5STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP6STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP7STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP8STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP9STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS1STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS2STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS3STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUIFSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUIFCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSSDEL (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUP14V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUM14V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP15V (description="Parameter Value", quantity="1")

<i>Int1d</i>	MCUM15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUMACTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUBSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTLSW (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTMSW (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM10TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUFRAMESTART (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM12TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUFRAMES (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM14TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM15TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTMSTATUS (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUBOOTSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUDLOADCONF (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECENCPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLATCHSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANSTART (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANEND (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANFSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTTHRESH (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORBEMF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTOFFSET (description="Parameter Value", quantity="1")

<i>Int1d</i>	SMECLVDTSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECFLAG (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECLVDTSIGN (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECINIT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANDIR (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANCNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG2 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECLVDTACSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTDCSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTRAJPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECPOSNDELTA (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCFINEPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMEANSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSKANPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG1AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG1OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG2AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG2OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG3AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG3OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPSENSPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSN2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPINTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFGAINDIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDIFFTC1 (description="Parameter Value", quantity="1")

<i>Int1d</i>	CHOPDIFFTC2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTIND (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGGCUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORVOLT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSN2 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKI (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGFFGAINDIFF (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTIND (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGCHOPCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGSENSSIG (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT10PARM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM03 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT12PARM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM01 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT14PARM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM09 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCUSSDEL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTEMPSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBITSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCHTRV (description="Parameter Value", quantity="1")

<i>Int1d</i>	SPHTRV (description="Parameter Value", quantity="1")
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<i>Int1d</i>	TCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMECONF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMESTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHT2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALCURR (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCAL4CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKSTAT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	PUMPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVAPHSTEMP (description="Parameter Value", quantity="1")
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<i>Int1d</i>	EMCFILTEMP (description="Parameter Value", quantity="1")
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<i>Int1d</i>	PL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	OPTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BAFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCALTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTTCBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTEVBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTHKBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTSDBLOCK (description="Parameter Value", quantity="1")

<i>Int1d</i>	LOSTNTBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_HP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_LP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT10STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT12STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT14STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT15STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMINTEGRITY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTPROG (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTDATA (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPROM2RAMCOPY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBOOTMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSELECTTAB (description="Parameter Value", quantity="1")
<i>Int1d</i>	CREC_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PTC_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGLE_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTRPBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAFAILCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG1OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG2OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	TABLE7_09_LWORD (description="Parameter Value", quantity="1")
<i>Long1d</i>	PTC_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	SCAL_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	TABLE7_12 (description="Parameter Value", quantity="1")
<i>Short1d</i>	HK_MON_STATUS (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGG_DCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_10 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_14 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_15 (description="Parameter Value", quantity="1")

<i>Int1d</i>	HK_16 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_17 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_18 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_19 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_20 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_21 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_22 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_23 (description="Parameter Value", quantity="1")
<i>Long1d</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>Long1d</i>	packetTime (description="TM packet time", quantity="1")
<i>Int1d</i>	seqCount (description="Sequence count", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="CHK", description="Critical HK Parameter Report")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="PHOTOFF", description="Photometer Offsets")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.26. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product (type="RST", description="Raw SPIRE Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")

StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	type (description="Product Type Identification", quantity="arcsec/year")
StringParameter	description (description="Name of this product", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")

LongParameter	bbid (description="Building Block Identifier", quantity="arcsec/year")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec/year")
Columns	
table dataset	(name="NHK", description="Nominal HK Parameter Report")
Metadata	
Columns	
ShortId	NHK_VERS (description="Parameter Value", quantity="1")
ShortId	NHK_TYPE (description="Parameter Value", quantity="1")
ShortId	NHK_DFHFLAG (description="Parameter Value", quantity="1")
ShortId	NHK_APID (description="Parameter Value", quantity="1")
ShortId	NHK_SEGFLAG (description="Parameter Value", quantity="1")
ShortId	NHK_SSC (description="Parameter Value", quantity="1")
IntId	NHK_PKTLEN (description="Parameter Value", quantity="1")
ShortId	NHK_PUSVERS (description="Parameter Value", quantity="1")
ShortId	NHK_PKTTYPE (description="Parameter Value", quantity="1")
ShortId	NHK_PKTSTYPE (description="Parameter Value", quantity="1")
LongId	NHK_PKTCTIME (description="Parameter Value", quantity="1")
IntId	NHK_PKTFTIME (description="Parameter Value", quantity="1")
IntId	BBFULLTYPE (description="Parameter Value", quantity="1")
IntId	MODE (description="Parameter Value", quantity="1")
IntId	STEP (description="Parameter Value", quantity="1")
LongId	THSK (description="Parameter Value", quantity="1")
LongId	TRESET (description="Parameter Value", quantity="1")
IntId	TCRECV (description="Parameter Value", quantity="1")
IntId	TCRECN (description="Parameter Value", quantity="1")
IntId	TCEXEC (description="Parameter Value", quantity="1")
IntId	TCEXEN (description="Parameter Value", quantity="1")
IntId	TM1N (description="Parameter Value", quantity="1")
IntId	TM2N (description="Parameter Value", quantity="1")
IntId	TM3N (description="Parameter Value", quantity="1")
IntId	TM4N (description="Parameter Value", quantity="1")
IntId	TM5N (description="Parameter Value", quantity="1")
IntId	DCUFRAMECNT (description="Parameter Value", quantity="1")
IntId	MCUFRAMECNT (description="Parameter Value", quantity="1")
IntId	SCUFRAMECNT (description="Parameter Value", quantity="1")
LongId	TSYNC (description="Parameter Value", quantity="1")
LongId	TDIFF (description="Parameter Value", quantity="1")
IntId	MEMSTAT_1 (description="Parameter Value", quantity="1")
IntId	MEMSTAT_2 (description="Parameter Value", quantity="1")
IntId	MEMSTAT_3 (description="Parameter Value", quantity="1")

<i>Int1d</i>	MONSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	DCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	DCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Short1d</i>	SCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	BBCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VMSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM1STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM2STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM3STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VMSTATAFX (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE0 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS0 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUM15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CPULOAD (description="Parameter Value", quantity="1")
<i>Long1d</i>	LSLOAD (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAFRMS (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATASTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCPHASE (description="Parameter Value", quantity="1")

<i>Int1d</i>	PSWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET5 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET6 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMLWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	TC_VDD_JFET (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET3V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET6V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET3V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCJFETV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWJFET2V (description="Parameter Value", quantity="1")

<i>Int1d</i>	SLWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	OBSVER (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	TMMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	FIFO_DF_FLAG (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP9TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP8TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP7TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP6TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP5TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	DAQTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIASSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP1STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP2STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP3STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP4STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP5STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP6STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP7STAT (description="Parameter Value", quantity="1")

<i>ShortId</i>	LIAP8STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP9STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAS1STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAS2STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAS3STAT (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUIFSTAT (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUIFCTRL (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUSSDEL (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUP5V (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUP14V (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUM14V (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUP15V (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUM15V (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUMACTEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUSMECTEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUBSMTEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUERR (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUSCHEDCNTLSW (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUSCHEDCNTMSW (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUTM10TSAMPLE (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUFRAMESTART (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUTM12TSAMPLE (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUFRAMES (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUTM14TSAMPLE (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUTM15TSAMPLE (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUTMSTATUS (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUBOOTSTAT (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUDLOADCONF (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECLOSTCOUNT (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECENCPWR (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECLVDTPWR (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECLATCHSTAT (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECLOOPMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	SCANSTART (description="Parameter Value", quantity="1")
<i>IntId</i>	SCANEND (description="Parameter Value", quantity="1")
<i>IntId</i>	SCANFSPEED (description="Parameter Value", quantity="1")
<i>IntId</i>	SCANS (description="Parameter Value", quantity="1")
<i>IntId</i>	SCANMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECKP (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECKD (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECDFILT (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECKI (description="Parameter Value", quantity="1")

<i>Int1d</i>	SMECINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTTHRESH (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORBEMF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECFLAG (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECLVDTSIGN (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECINIT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANDIR (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANCNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTACSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTDCSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTRAJPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECPOSNDELTA (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC FINEPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMEANSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSCANPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG1AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG1OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG2AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG2OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG3AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG3OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPSENSPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPLOOPMODE (description="Parameter Value", quantity="1")

<i>Int1d</i>	CHOPPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSN2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPINTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFGAINDIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDIFFTC1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDIFFTC2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTIND (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGGCUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGSENSPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSN2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGINTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGFFGAINDIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDIFFTC1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDIFFTC2 (description="Parameter Value", quantity="1")

<i>Int1d</i>	JIGGRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTIND (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGCHOPCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM10 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM14 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSSDEL (description="Parameter Value", quantity="1")

<i>Int1d</i>	SCUSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTEMPSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBITSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	CCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMECONF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMESTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHT2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHRTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVAPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SHUNTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EMCFILTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	OPTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BAFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2TEMP (description="Parameter Value", quantity="1")

<i>Int1d</i>	SCAL4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCALTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTTCBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTEVBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTHKBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTSDBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTNTBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_HP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_LP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT10STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT12STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT14STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT15STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMINTEGRITY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTPROG (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTDATA (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPROM2RAMCOPY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBOOTMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSELECTTAB (description="Parameter Value", quantity="1")
<i>Int1d</i>	CREC_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PTC_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGLE_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTRPBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAFAILCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG1OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG2OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	TABLE7_09_LWORD (description="Parameter Value", quantity="1")
<i>Long1d</i>	PTC_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	SCAL_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	TABLE7_12 (description="Parameter Value", quantity="1")
<i>Short1d</i>	HK_MON_STATUS (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGG_DCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_03 (description="Parameter Value", quantity="1")

<i>Int1d</i>	HK_04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_10 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_14 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_15 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_16 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_17 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_18 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_19 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_20 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_21 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_22 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_23 (description="Parameter Value", quantity="1")
<i>Long1d</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>Long1d</i>	packetTime (description="TM packet time", quantity="1")
<i>Int1d</i>	seqCount (description="Sequence count", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="CHK", description="Critical HK Parameter Report")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="PHOTF", description="Photometer Full Array (Nominal Science Report)")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="BSMNOMINAL", description="BSM Block (Nominal Science Report)")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.27. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product</i> (type="RST", description="Raw SPIRE Timeline")	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")

StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")

DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	type (description="Product Type Identification", quantity="arcsec/year")
StringParameter	description (description="Name of this product", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec/year")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec/year")
<i>Columns</i>	
<i>table dataset</i>	(name="NHK", description="Nominal HK Parameter Report")
<i>Metadata</i>	
<i>Columns</i>	
<i>ShortId</i>	NHK_VERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_TYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_DFHFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_APID (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SEGFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SSC (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTLEN (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PUSVERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTTYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTSTYPE (description="Parameter Value", quantity="1")
<i>LongId</i>	NHK_PKTCTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTFTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	BBFULLTYPE (description="Parameter Value", quantity="1")
<i>IntId</i>	MODE (description="Parameter Value", quantity="1")
<i>IntId</i>	STEP (description="Parameter Value", quantity="1")
<i>LongId</i>	THSK (description="Parameter Value", quantity="1")
<i>LongId</i>	TRESET (description="Parameter Value", quantity="1")
<i>IntId</i>	TCRECV (description="Parameter Value", quantity="1")
<i>IntId</i>	TCRECN (description="Parameter Value", quantity="1")

<i>Int1d</i>	TCEXEC (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCEXEN (description="Parameter Value", quantity="1")
<i>Int1d</i>	TM1N (description="Parameter Value", quantity="1")
<i>Int1d</i>	TM2N (description="Parameter Value", quantity="1")
<i>Int1d</i>	TM3N (description="Parameter Value", quantity="1")
<i>Int1d</i>	TM4N (description="Parameter Value", quantity="1")
<i>Int1d</i>	TM5N (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUFRAMECNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUFRAMECNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMECNT (description="Parameter Value", quantity="1")
<i>Long1d</i>	TSYNC (description="Parameter Value", quantity="1")
<i>Long1d</i>	TDIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT_1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT_2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT_3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MONSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	DCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	DCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Short1d</i>	SCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	BBCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VMSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM1STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM2STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM3STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VMSTATAFX (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE0 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS0 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUM15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CPULOAD (description="Parameter Value", quantity="1")
<i>Long1d</i>	LSLOAD (description="Parameter Value", quantity="1")

<i>Int1d</i>	DPUP2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAFRMS (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATASTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET5 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET6 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMLWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	TC_VDD_JFET (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET3V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET6V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET3V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWJFET2V (description="Parameter Value", quantity="1")

<i>Int1d</i>	PHOTHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCJFETV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	OBSVER (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER3 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	FIFO_DF_FLAG (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP9V (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SLIAP9V (description="Parameter Value", quantity="1")
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<i>Int1d</i>	LIAP8TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP7TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP6TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP5TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP3TEMP (description="Parameter Value", quantity="1")

<i>Int1d</i>	LIAP2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	DAQTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIASSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP1STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP2STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP3STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP4STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP5STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP6STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP7STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP8STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP9STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS1STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS2STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS3STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUIFSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUIFCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSSDEL (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP14V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUM14V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUM15V (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUSMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUBSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTLSW (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTMSW (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUFRAMESTART (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM12TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUFRAMES (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM14TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM15TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTMSTATUS (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUBOOTSTAT (description="Parameter Value", quantity="1")

<i>Int1d</i>	MCUDLOADCONF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLOSTCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLATCHSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANSTART (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANEND (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANFSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTTHRESH (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORBEMF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSTAT (description="Parameter Value", quantity="1")
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<i>Short1d</i>	SMECLVDTSIGN (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECINIT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANDIR (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANCNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTACSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTDCSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTRAJPOSN (description="Parameter Value", quantity="1")

<i>Int1d</i>	SMECDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECPOSNDELTA (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCNEFINESPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMEANSPEED (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORVOLT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECENCNSIG2OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCNSIG3AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCNSIG3OFF (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOPPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSN2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKI (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOPINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFGAIN (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOPDIFFTC2 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOPMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTRES (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOPPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGGCUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMSTAT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOPSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDACVAL (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOPMOTORVOLT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSN2 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGINTREF (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGFFGAINDIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDIFFTC1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDIFFTC2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTRES (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGCHOPCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDACVAL (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT10PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM02 (description="Parameter Value", quantity="1")

<i>Int1d</i>	MCUPCKT14PARM03 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT14PARM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM10 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM14 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCUIFCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSSDEL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTEMPSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBITSTAT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCUP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHTRV (description="Parameter Value", quantity="1")
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<i>Int1d</i>	TCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMECONF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMESTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHT2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALCURR (description="Parameter Value", quantity="1")

<i>Int1d</i>	SCAL2CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHTRTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVAPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SHUNTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EMCFILTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	OPTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BAFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCALTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTTCBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTEVBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTHKBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTSDBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTNTBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_HP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_LP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT10STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT12STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT14STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT15STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMINTEGRITY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTPROG (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTDATA (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPROM2RAMCOPY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBOOTMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSELECTTAB (description="Parameter Value", quantity="1")
<i>Int1d</i>	CREC_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PTC_STAGE (description="Parameter Value", quantity="1")

<i>Int1d</i>	SCAL_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGLE_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTRPBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAFAILCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG1OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG2OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	TABLE7_09_LWORD (description="Parameter Value", quantity="1")
<i>Long1d</i>	PTC_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	SCAL_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	TABLE7_12 (description="Parameter Value", quantity="1")
<i>Short1d</i>	HK_MON_STATUS (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGG_DCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_10 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_14 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_15 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_16 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_17 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_18 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_19 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_20 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_21 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_22 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_23 (description="Parameter Value", quantity="1")
<i>Long1d</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>Long1d</i>	packetTime (description="TM packet time", quantity="1")
<i>Int1d</i>	seqCount (description="Sequence count", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="CHK", description="Critical HK Parameter Report")
	()

<i>table dataset</i>	Dataset similar to the one above with (name="PHOTF", description="Photometer Full Array (Nominal Science Report)")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="SCUNOMINAL", description="SCU Block (Nominal Science Report)")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.28. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product (type="RST", description="Raw SPIRE Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")

DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="km s-1")
<i>Columns</i>	
<i>table dataset</i>	(name="CHK", description="Critical HK Parameter Report")
<i>Metadata</i>	
<i>Columns</i>	
<i>Int1d</i>	SID_C (description="Parameter Value", quantity="1")
<i>Long1d</i>	OBSID_C (description="Parameter Value", quantity="1")
<i>Long1d</i>	BBID_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MODE_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	STEP_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCRECV_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCEXEC_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT1_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT2_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT3_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MONSTAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUIFSTAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFSTAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFETSTAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET2_C (description="Parameter Value", quantity="1")

<i>ShortId</i>	PSW_VDD_JFET3_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	PSW_VDD_JFET4_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	PSW_VDD_JFET5_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	PSW_VDD_JFET6_C (description="Parameter Value", quantity="1")
<i>IntId</i>	PMLWJFETSTAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	PMW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	PMW_VDD_JFET2_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	PMW_VDD_JFET3_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	PMW_VDD_JFET4_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	PLW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	PLW_VDD_JFET2_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	TC_VDD_JFET_C (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECJFETSTAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	SLW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	SSW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	SSW_VDD_JFET2_C (description="Parameter Value", quantity="1")
<i>IntId</i>	LIASSTAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP1STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP2STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP3STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP4STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP5STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP6STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP7STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP8STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP9STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAS1STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAS2STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAS3STAT_C (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUERR_C (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECSTAT_C (description="Parameter Value", quantity="1")
<i>IntId</i>	BSMSTAT_C (description="Parameter Value", quantity="1")
<i>IntId</i>	SCUSTAT_C (description="Parameter Value", quantity="1")
<i>IntId</i>	SUBKTEMP_C (description="Parameter Value", quantity="1")
<i>IntId</i>	OBSVER_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	OBSVER1_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	OBSVER2_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	OBSVER3_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_VERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_TYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_DFHFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_APID (description="Parameter Value", quantity="1")

<i>ShortId</i>	CHK_SEGFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_SSC (description="Parameter Value", quantity="1")
<i>IntId</i>	CHK_PKTLEN (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_PUSVERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_PKTTYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_PKTSTYPE (description="Parameter Value", quantity="1")
<i>LongId</i>	CHK_PKTCTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	CHK_PKTFTIME (description="Parameter Value", quantity="1")
<i>LongId</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>LongId</i>	packetTime (description="TM packet time", quantity="1")
<i>IntId</i>	seqCount (description="Sequence count", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="NHK", description="Nominal HK Parameter Report")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.29. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product (type="RST", description="Raw SPIRE Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")

LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="km s-1")
Columns	
table dataset	(name="CHK", description="Critical HK Parameter Report")
Metadata	
Columns	
Int1d	SID_C (description="Parameter Value", quantity="1")
Long1d	OBSID_C (description="Parameter Value", quantity="1")
Long1d	BBID_C (description="Parameter Value", quantity="1")
Int1d	MODE_C (description="Parameter Value", quantity="1")

<i>Int1d</i>	STEP_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCRECV_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCEXEC_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT1_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT2_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT3_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MONSTAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUIFSTAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFSTAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFETSTAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET2_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET3_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET4_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET5_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET6_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMLWJFETSTAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET2_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET3_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET4_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET2_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	TC_VDD_JFET_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECJFETSTAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET2_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIASSTAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP1STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP2STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP3STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP4STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP5STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP6STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP7STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP8STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP9STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS1STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS2STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS3STAT_C (description="Parameter Value", quantity="1")

<i>Int1d</i>	MCUERR_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSTAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMSTAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSTAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKTEMP_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	OBSVER_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER1_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER2_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER3_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	CHK_VERS (description="Parameter Value", quantity="1")
<i>Short1d</i>	CHK_TYPE (description="Parameter Value", quantity="1")
<i>Short1d</i>	CHK_DFHLFLAG (description="Parameter Value", quantity="1")
<i>Short1d</i>	CHK_APID (description="Parameter Value", quantity="1")
<i>Short1d</i>	CHK_SEGFLAG (description="Parameter Value", quantity="1")
<i>Short1d</i>	CHK_SSC (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHK_PKTLEN (description="Parameter Value", quantity="1")
<i>Short1d</i>	CHK_PUSVERS (description="Parameter Value", quantity="1")
<i>Short1d</i>	CHK_PKTTYPE (description="Parameter Value", quantity="1")
<i>Short1d</i>	CHK_PKTSTYPE (description="Parameter Value", quantity="1")
<i>Long1d</i>	CHK_PKTCTIME (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHK_PKTFTIME (description="Parameter Value", quantity="1")
<i>Long1d</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>Long1d</i>	packetTime (description="TM packet time", quantity="1")
<i>Int1d</i>	seqCount (description="Sequence count", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="NHK", description="Nominal HK Parameter Report")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="SPECF", description="Spectrometer Full Array (Nominal Science Report)")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.30. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product (type="RST", description="Raw SPIRE Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")

StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")

LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="km s-1")
Columns	
table dataset	(name="NHK", description="Nominal HK Parameter Report")
Metadata	
Columns	
ShortId	NHK_VERS (description="Parameter Value", quantity="1")
ShortId	NHK_TYPE (description="Parameter Value", quantity="1")
ShortId	NHK_DFHFLAG (description="Parameter Value", quantity="1")
ShortId	NHK_APID (description="Parameter Value", quantity="1")
ShortId	NHK_SEGFLAG (description="Parameter Value", quantity="1")
ShortId	NHK_SSC (description="Parameter Value", quantity="1")
IntId	NHK_PKTLEN (description="Parameter Value", quantity="1")
ShortId	NHK_PUSVERS (description="Parameter Value", quantity="1")
ShortId	NHK_PKTTYPE (description="Parameter Value", quantity="1")
ShortId	NHK_PKTSTYPE (description="Parameter Value", quantity="1")
LongId	NHK_PKTCTIME (description="Parameter Value", quantity="1")
IntId	NHK_PKTFTIME (description="Parameter Value", quantity="1")
IntId	BBFULLTYPE (description="Parameter Value", quantity="1")
IntId	MODE (description="Parameter Value", quantity="1")
IntId	STEP (description="Parameter Value", quantity="1")
LongId	THSK (description="Parameter Value", quantity="1")
LongId	TRESET (description="Parameter Value", quantity="1")
IntId	TCRECV (description="Parameter Value", quantity="1")
IntId	TCRECN (description="Parameter Value", quantity="1")
IntId	TCEXEC (description="Parameter Value", quantity="1")
IntId	TCEXEN (description="Parameter Value", quantity="1")
IntId	TM1N (description="Parameter Value", quantity="1")
IntId	TM2N (description="Parameter Value", quantity="1")
IntId	TM3N (description="Parameter Value", quantity="1")
IntId	TM4N (description="Parameter Value", quantity="1")
IntId	TM5N (description="Parameter Value", quantity="1")
IntId	DCUFRAMECNT (description="Parameter Value", quantity="1")
IntId	MCUFRAMECNT (description="Parameter Value", quantity="1")
IntId	SCUFRAMECNT (description="Parameter Value", quantity="1")
LongId	TSYNC (description="Parameter Value", quantity="1")
LongId	TDIFF (description="Parameter Value", quantity="1")
IntId	MEMSTAT_1 (description="Parameter Value", quantity="1")
IntId	MEMSTAT_2 (description="Parameter Value", quantity="1")
IntId	MEMSTAT_3 (description="Parameter Value", quantity="1")

<i>Int1d</i>	MONSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	DCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	DCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Short1d</i>	SCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	BBCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VMSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM1STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM2STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM3STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VMSTATAFX (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE0 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS0 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUM15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CPULOAD (description="Parameter Value", quantity="1")
<i>Long1d</i>	LSLOAD (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAFRMS (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATASTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCPHASE (description="Parameter Value", quantity="1")

<i>Int1d</i>	PSWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET5 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET6 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMLWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	TC_VDD_JFET (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET3V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET6V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET3V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCJFETV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWJFET2V (description="Parameter Value", quantity="1")

<i>Int1d</i>	SLWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	OBSVER (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	TMMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	FIFO_DF_FLAG (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP9TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP8TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP7TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP6TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP5TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	DAQTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIASSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP1STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP2STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP3STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP4STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP5STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP6STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP7STAT (description="Parameter Value", quantity="1")

<i>ShortId</i>	LIAP8STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP9STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAS1STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAS2STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAS3STAT (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUIFSTAT (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUIFCTRL (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUSSDEL (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUP5V (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUP14V (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUM14V (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUP15V (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUM15V (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUMACTEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUSMECTEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUBSMTEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUERR (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUSCHEDCNTLSW (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUSCHEDCNTMSW (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUTM10TSAMPLE (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUFRAMESTART (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUTM12TSAMPLE (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUFRAMES (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUTM14TSAMPLE (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUTM15TSAMPLE (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUTMSTATUS (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUBOOTSTAT (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUDLOADCONF (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECLOSTCOUNT (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECENCPWR (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECLVDTPWR (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECLATCHSTAT (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECLOOPMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	SCANSTART (description="Parameter Value", quantity="1")
<i>IntId</i>	SCANEND (description="Parameter Value", quantity="1")
<i>IntId</i>	SCANFSPEED (description="Parameter Value", quantity="1")
<i>IntId</i>	SCANS (description="Parameter Value", quantity="1")
<i>IntId</i>	SCANMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECKP (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECKD (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECDFILT (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECKI (description="Parameter Value", quantity="1")

<i>Int1d</i>	SMECINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTTHRESH (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORBEMF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECFLAG (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECLVDTSIGN (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECINIT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANDIR (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANCNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTAC SIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTDC SIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTRAJPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECPOSNDELTA (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC FINEPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMEANSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSCANPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG1AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG1OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG2AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG2OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG3AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG3OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPSENSPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPLOOPMODE (description="Parameter Value", quantity="1")

<i>Int1d</i>	CHOPPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSN2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPINTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFGAINDIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDIFFTC1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDIFFTC2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTIND (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGGCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGSENSPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSN2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGINTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGFFGAINDIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDIFFTC1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDIFFTC2 (description="Parameter Value", quantity="1")

<i>Int1d</i>	JIGGRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTIND (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGCHOPCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM10 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM14 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSSDEL (description="Parameter Value", quantity="1")

<i>Int1d</i>	SCUSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTEMPSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBITSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	CCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMECONF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMESTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHT2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHTRTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVAPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SHUNTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EMCFILTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	OPTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BAFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2TEMP (description="Parameter Value", quantity="1")

<i>Int1d</i>	SCAL4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCALTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTTCBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTEVBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTHKBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTSDBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTNTBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_HP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_LP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT10STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT12STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT14STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT15STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMINTEGRITY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTPROG (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTDATA (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPROM2RAMCOPY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBOOTMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSELECTTAB (description="Parameter Value", quantity="1")
<i>Int1d</i>	CREC_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PTC_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGLE_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTRPBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAFAILCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG1OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG2OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	TABLE7_09_LWORD (description="Parameter Value", quantity="1")
<i>Long1d</i>	PTC_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	SCAL_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	TABLE7_12 (description="Parameter Value", quantity="1")
<i>Short1d</i>	HK_MON_STATUS (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGG_DCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_02 (description="Parameter Value", quantity="1")

<i>Int1d</i>	HK_03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_10 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_14 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_15 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_16 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_17 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_18 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_19 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_20 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_21 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_22 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_23 (description="Parameter Value", quantity="1")
<i>Long1d</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>Long1d</i>	packetTime (description="TM packet time", quantity="1")
<i>Int1d</i>	seqCount (description="Sequence count", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="CHK", description="Critical HK Parameter Report")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.31. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product (type="RST", description="Raw SPIRE Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")

LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")

StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="km s-1")
<i>Columns</i>	
<i>table dataset</i>	(name="NHK", description="Nominal HK Parameter Report")
<i>Metadata</i>	
<i>Columns</i>	
<i>ShortId</i>	NHK_VERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_TYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_DFHFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_APID (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SEGFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SSC (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTLEN (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PUSVERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTTYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTSTYPE (description="Parameter Value", quantity="1")
<i>LongId</i>	NHK_PKTCTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTFTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	BBFULLTYPE (description="Parameter Value", quantity="1")
<i>IntId</i>	MODE (description="Parameter Value", quantity="1")
<i>IntId</i>	STEP (description="Parameter Value", quantity="1")
<i>LongId</i>	THSK (description="Parameter Value", quantity="1")
<i>LongId</i>	TRESET (description="Parameter Value", quantity="1")
<i>IntId</i>	TCRECV (description="Parameter Value", quantity="1")
<i>IntId</i>	TCRECN (description="Parameter Value", quantity="1")
<i>IntId</i>	TCEXEC (description="Parameter Value", quantity="1")
<i>IntId</i>	TCEXEN (description="Parameter Value", quantity="1")
<i>IntId</i>	TM1N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM2N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM3N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM4N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM5N (description="Parameter Value", quantity="1")
<i>IntId</i>	DCUFRAMECNT (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUFRAMECNT (description="Parameter Value", quantity="1")
<i>IntId</i>	SCUFRAMECNT (description="Parameter Value", quantity="1")
<i>LongId</i>	TSYNC (description="Parameter Value", quantity="1")
<i>LongId</i>	TDIFF (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT_1 (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT_2 (description="Parameter Value", quantity="1")

<i>Int1d</i>	MEMSTAT_3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MONSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	DCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	DCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Short1d</i>	SCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	BBCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VMSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM1STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM2STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM3STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VMSTATAFX (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE0 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS0 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUM15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CPULOAD (description="Parameter Value", quantity="1")
<i>Long1d</i>	LSLOAD (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAFRMS (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATASTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWPHASE (description="Parameter Value", quantity="1")

<i>Int1d</i>	TCPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET5 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET6 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMLWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	TC_VDD_JFET (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET3V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET6V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET1V (description="Parameter Value", quantity="1")
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<i>Int1d</i>	PMWJFET4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCJFETV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWJFET1V (description="Parameter Value", quantity="1")

<i>Int1d</i>	SSWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	OBSVER (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	TMMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	FIFO_DF_FLAG (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP9V (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SLIAP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAM9V (description="Parameter Value", quantity="1")
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<i>Int1d</i>	LIAP7TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP6TEMP (description="Parameter Value", quantity="1")
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<i>Int1d</i>	LIAP4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP1TEMP (description="Parameter Value", quantity="1")
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<i>Int1d</i>	LIAS2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	DAQTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIASSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP1STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP2STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP3STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP4STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP5STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP6STAT (description="Parameter Value", quantity="1")

<i>ShortId</i>	LIAP7STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP8STAT (description="Parameter Value", quantity="1")
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<i>ShortId</i>	LIAS1STAT (description="Parameter Value", quantity="1")
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<i>ShortId</i>	LIAS3STAT (description="Parameter Value", quantity="1")
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<i>IntId</i>	MCUSSDEL (description="Parameter Value", quantity="1")
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<i>IntId</i>	MCUP14V (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUM14V (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUP15V (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUM15V (description="Parameter Value", quantity="1")
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<i>IntId</i>	MCUSMECTEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUBSMTEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUERR (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUSCHEDCNTLSW (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUSCHEDCNTMSW (description="Parameter Value", quantity="1")
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<i>IntId</i>	MCUFRAMESTART (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUTM12TSAMPLE (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUFRAMES (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUTM14TSAMPLE (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUTM15TSAMPLE (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUTMSTATUS (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUBOOTSTAT (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUDLOADCONF (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECLOSTCOUNT (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECENCPWR (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECLVDTPWR (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECLATCHSTAT (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECLOOPMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	SCANSTART (description="Parameter Value", quantity="1")
<i>IntId</i>	SCANEND (description="Parameter Value", quantity="1")
<i>IntId</i>	SCANFSPEED (description="Parameter Value", quantity="1")
<i>IntId</i>	SCANS (description="Parameter Value", quantity="1")
<i>IntId</i>	SCANMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECKP (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECKD (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECDFILT (description="Parameter Value", quantity="1")

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<i>Int1d</i>	SMECINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTTHRESH (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORBEMF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECFLAG (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECLVDTSIGN (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECINIT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANDIR (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANCNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG1 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECLVDTACSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTDCSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTRAJPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECPOSNDELTA (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCFINEPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMEANSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSKANPOSNERR (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG1AMP (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECENCSIG2OFF (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECENCSIG3OFF (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOPPOSN2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKI (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOPFFGAIN (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOPDIFFTC1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDIFFTC2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTIND (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGGCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORVOLT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGLOOPMODE (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGINTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGINTLIMIT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGDIFFTC2 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTRES (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGCHOPCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDACVAL (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGMOTORVOLT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT10PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM02 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT12PARAM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM03 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT14PARAM05 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT14PARAM08 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT14PARAM12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM13 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCUIFCTRL (description="Parameter Value", quantity="1")

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<i>Int1d</i>	SCUSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTEMPSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBITSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	CCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMECONF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMESTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALV (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCAL4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHT2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTGND (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCAL4CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHRTEMP (description="Parameter Value", quantity="1")
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<i>Int1d</i>	EVAPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SHUNTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EMCFILTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SL0TEMP (description="Parameter Value", quantity="1")
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<i>Int1d</i>	OPTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BAFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMIFTEMP (description="Parameter Value", quantity="1")

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<i>Int1d</i>	SCAL4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCALTEMP (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKTEMP (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCUTHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTTCBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTVEBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTHKBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTSDBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTNTBLOCK (description="Parameter Value", quantity="1")
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<i>Int1d</i>	LS_LP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT10STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT12STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT14STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT15STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMINTEGRITY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTPROG (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTDATA (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPROM2RAMCOPY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBOOTMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSELECTTAB (description="Parameter Value", quantity="1")
<i>Int1d</i>	CREC_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PTC_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGLE_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTRPBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAFAILCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG1OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG2OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	TABLE7_09_LWORD (description="Parameter Value", quantity="1")
<i>Long1d</i>	PTC_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	SCAL_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	TABLE7_12 (description="Parameter Value", quantity="1")
<i>Short1d</i>	HK_MON_STATUS (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGG_DCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_02 (description="Parameter Value", quantity="1")

<i>Int1d</i>	HK_03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_10 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_14 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_15 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_16 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_17 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_18 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_19 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_20 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_21 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_22 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_23 (description="Parameter Value", quantity="1")
<i>Long1d</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>Long1d</i>	packetTime (description="TM packet time", quantity="1")
<i>Int1d</i>	seqCount (description="Sequence count", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="CHK", description="Critical HK Parameter Report")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="MCUENG", description="M-CU Engineering Block")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.32. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product (type="RST", description="Raw SPIRE Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")

StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")

StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="km s-1")
<i>Columns</i>	
<i>table dataset</i>	(name="CHK", description="Critical HK Parameter Report")
<i>Metadata</i>	
<i>Columns</i>	
<i>Int1d</i>	SID_C (description="Parameter Value", quantity="1")
<i>Long1d</i>	OBSID_C (description="Parameter Value", quantity="1")
<i>Long1d</i>	BBID_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MODE_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	STEP_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCRECV_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCEXEC_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT1_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT2_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT3_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MONSTAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUIFSTAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFSTAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFETSTAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET2_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET3_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET4_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET5_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET6_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMLWJFETSTAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET2_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET3_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET4_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET2_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	TC_VDD_JFET_C (description="Parameter Value", quantity="1")

<i>Int1d</i>	SPECJFETSTAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET2_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIASSTAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP1STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP2STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP3STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP4STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP5STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP6STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP7STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP8STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP9STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS1STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS2STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS3STAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUERR_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSTAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMSTAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSTAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKTEMP_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	OBSVER_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER1_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER2_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER3_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	CHK_VERS (description="Parameter Value", quantity="1")
<i>Short1d</i>	CHK_TYPE (description="Parameter Value", quantity="1")
<i>Short1d</i>	CHK_DFHFLAG (description="Parameter Value", quantity="1")
<i>Short1d</i>	CHK_APID (description="Parameter Value", quantity="1")
<i>Short1d</i>	CHK_SEGFLAG (description="Parameter Value", quantity="1")
<i>Short1d</i>	CHK_SSC (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHK_PKTLEN (description="Parameter Value", quantity="1")
<i>Short1d</i>	CHK_PUSVERS (description="Parameter Value", quantity="1")
<i>Short1d</i>	CHK_PKTTYPE (description="Parameter Value", quantity="1")
<i>Short1d</i>	CHK_PKTSTYPE (description="Parameter Value", quantity="1")
<i>Long1d</i>	CHK_PKTCTIME (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHK_PKTFTIME (description="Parameter Value", quantity="1")
<i>Long1d</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>Long1d</i>	packetTime (description="TM packet time", quantity="1")
<i>Int1d</i>	seqCount (description="Sequence count", quantity="1")
	()

<i>table dataset</i>	Dataset similar to the one above with (name="NHK", description="Nominal HK Parameter Report")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="SPECOFF", description="Spectrometer Offsets")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.33. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product (type="RST", description="Raw SPIRE Timeline")</i>	
<i>Metada- ta</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")

StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")

StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="km s-1")
Columns	
table dataset	(name="CHK", description="Critical HK Parameter Report")
Metadata	
Columns	
IntId	SID_C (description="Parameter Value", quantity="1")
LongId	OBSID_C (description="Parameter Value", quantity="1")
LongId	BBID_C (description="Parameter Value", quantity="1")
IntId	MODE_C (description="Parameter Value", quantity="1")
IntId	STEP_C (description="Parameter Value", quantity="1")
IntId	TCRECV_C (description="Parameter Value", quantity="1")
IntId	TCEXEC_C (description="Parameter Value", quantity="1")
IntId	MEMSTAT1_C (description="Parameter Value", quantity="1")
IntId	MEMSTAT2_C (description="Parameter Value", quantity="1")
IntId	MEMSTAT3_C (description="Parameter Value", quantity="1")
IntId	MONSTAT_C (description="Parameter Value", quantity="1")
IntId	SCUDCDCSTAT_C (description="Parameter Value", quantity="1")
IntId	MCUIFSTAT_C (description="Parameter Value", quantity="1")
IntId	SCUIFSTAT_C (description="Parameter Value", quantity="1")
IntId	PSWJFETSTAT_C (description="Parameter Value", quantity="1")
ShortId	PSW_VDD_JFET1_C (description="Parameter Value", quantity="1")
ShortId	PSW_VDD_JFET2_C (description="Parameter Value", quantity="1")
ShortId	PSW_VDD_JFET3_C (description="Parameter Value", quantity="1")
ShortId	PSW_VDD_JFET4_C (description="Parameter Value", quantity="1")
ShortId	PSW_VDD_JFET5_C (description="Parameter Value", quantity="1")
ShortId	PSW_VDD_JFET6_C (description="Parameter Value", quantity="1")
IntId	PMLWJFETSTAT_C (description="Parameter Value", quantity="1")
ShortId	PMW_VDD_JFET1_C (description="Parameter Value", quantity="1")
ShortId	PMW_VDD_JFET2_C (description="Parameter Value", quantity="1")
ShortId	PMW_VDD_JFET3_C (description="Parameter Value", quantity="1")
ShortId	PMW_VDD_JFET4_C (description="Parameter Value", quantity="1")
ShortId	PLW_VDD_JFET1_C (description="Parameter Value", quantity="1")
ShortId	PLW_VDD_JFET2_C (description="Parameter Value", quantity="1")
ShortId	TC_VDD_JFET_C (description="Parameter Value", quantity="1")
IntId	SPECJFETSTAT_C (description="Parameter Value", quantity="1")

<i>ShortId</i>	SLW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	SSW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	SSW_VDD_JFET2_C (description="Parameter Value", quantity="1")
<i>IntId</i>	LIASSTAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP1STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP2STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP3STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP4STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP5STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP6STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP7STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP8STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP9STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAS1STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAS2STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAS3STAT_C (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUERR_C (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECSTAT_C (description="Parameter Value", quantity="1")
<i>IntId</i>	BSMSTAT_C (description="Parameter Value", quantity="1")
<i>IntId</i>	SCUSTAT_C (description="Parameter Value", quantity="1")
<i>IntId</i>	SUBKTEMP_C (description="Parameter Value", quantity="1")
<i>IntId</i>	OBSVER_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	OBSVER1_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	OBSVER2_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	OBSVER3_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_VERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_TYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_DFHFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_APID (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_SEGFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_SSC (description="Parameter Value", quantity="1")
<i>IntId</i>	CHK_PKTLEN (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_PUSVERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_PKTTYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_PKTSTYPE (description="Parameter Value", quantity="1")
<i>LongId</i>	CHK_PKTCTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	CHK_PKTFTIME (description="Parameter Value", quantity="1")
<i>LongId</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>LongId</i>	packetTime (description="TM packet time", quantity="1")
<i>IntId</i>	seqCount (description="Sequence count", quantity="1")
	()

<i>table dataset</i>	Dataset similar to the one above with (name="NHK", description="Nominal HK Parameter Report")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="SPECF", description="Spectrometer Full Array (Nominal Science Report)")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="SMECSELECT", description="SMEC Selected Data (B Type Science Report)")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="BSMNOMINAL", description="BSM Block (Nominal Science Report)")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.34. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product (type="RST", description="Raw SPIRE Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")

StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")

StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="km s-1")
Columns	
table dataset	(name="NHK", description="Nominal HK Parameter Report")
Metadata	
Columns	
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ShortId	NHK_DFHFLAG (description="Parameter Value", quantity="1")
ShortId	NHK_APID (description="Parameter Value", quantity="1")
ShortId	NHK_SEGFLAG (description="Parameter Value", quantity="1")
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IntId	BBFULLTYPE (description="Parameter Value", quantity="1")
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IntId	TCEXEN (description="Parameter Value", quantity="1")
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<i>Int1d</i>	VMSTATAFX (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SPECMCLKDIV (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT12PARM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM10 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM14 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFSTAT (description="Parameter Value", quantity="1")

<i>Int1d</i>	SCUIFCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSSDEL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTEMPSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBITSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	CCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMECONF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMESTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHT2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHRTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVAPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SHUNTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EMCFILTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	OPTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BAFTEMP (description="Parameter Value", quantity="1")

<i>Int1d</i>	BSMIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCALTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTTCBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTVBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTHKBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTSDBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTNTBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_HP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_LP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT10STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT12STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT14STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT15STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMINTEGRITY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTPROG (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTDATA (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPROM2RAMCOPY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBOOTMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSELECTTAB (description="Parameter Value", quantity="1")
<i>Int1d</i>	CREC_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PTC_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGLE_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTRPBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAFAILCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG1OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG2OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	TABLE7_09_LWORD (description="Parameter Value", quantity="1")
<i>Long1d</i>	PTC_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	SCAL_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	TABLE7_12 (description="Parameter Value", quantity="1")
<i>Short1d</i>	HK_MON_STATUS (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGG_DCOUPLE (description="Parameter Value", quantity="1")

<i>Int1d</i>	HK_02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_10 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_14 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_15 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_16 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_17 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_18 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_19 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_20 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_21 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_22 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_23 (description="Parameter Value", quantity="1")
<i>Long1d</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>Long1d</i>	packetTime (description="TM packet time", quantity="1")
<i>Int1d</i>	seqCount (description="Sequence count", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="CHK", description="Critical HK Parameter Report")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="SPECF", description="Spectrometer Full Array (Nominal Science Report)")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="SCUNOMINAL", description="SCU Block (Nominal Science Report)")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.35. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product</i> (type="RST", description="Raw SPIRE Timeline")	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")

StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")

StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="km s-1")
Columns	
table dataset	(name="NHK", description="Nominal HK Parameter Report")
Metadata	
Columns	
ShortId	NHK_VERS (description="Parameter Value", quantity="1")
ShortId	NHK_TYPE (description="Parameter Value", quantity="1")
ShortId	NHK_DFHFLAG (description="Parameter Value", quantity="1")
ShortId	NHK_APID (description="Parameter Value", quantity="1")
ShortId	NHK_SEGFLAG (description="Parameter Value", quantity="1")
ShortId	NHK_SSC (description="Parameter Value", quantity="1")
IntId	NHK_PKTLEN (description="Parameter Value", quantity="1")
ShortId	NHK_PUSVERS (description="Parameter Value", quantity="1")
ShortId	NHK_PKTTYPE (description="Parameter Value", quantity="1")
ShortId	NHK_PKTSTYPE (description="Parameter Value", quantity="1")
LongId	NHK_PKTCTIME (description="Parameter Value", quantity="1")
IntId	NHK_PKTFTIME (description="Parameter Value", quantity="1")
IntId	BBFULLTYPE (description="Parameter Value", quantity="1")
IntId	MODE (description="Parameter Value", quantity="1")
IntId	STEP (description="Parameter Value", quantity="1")
LongId	THSK (description="Parameter Value", quantity="1")
LongId	TRESET (description="Parameter Value", quantity="1")
IntId	TCRECV (description="Parameter Value", quantity="1")
IntId	TCRECN (description="Parameter Value", quantity="1")
IntId	TCEXEC (description="Parameter Value", quantity="1")
IntId	TCEXEN (description="Parameter Value", quantity="1")
IntId	TM1N (description="Parameter Value", quantity="1")
IntId	TM2N (description="Parameter Value", quantity="1")
IntId	TM3N (description="Parameter Value", quantity="1")
IntId	TM4N (description="Parameter Value", quantity="1")
IntId	TM5N (description="Parameter Value", quantity="1")
IntId	DCUFRAMECNT (description="Parameter Value", quantity="1")
IntId	MCUFRAMECNT (description="Parameter Value", quantity="1")
IntId	SCUFRAMECNT (description="Parameter Value", quantity="1")
LongId	TSYNC (description="Parameter Value", quantity="1")
LongId	TDIFF (description="Parameter Value", quantity="1")

<i>Int1d</i>	MEMSTAT_1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT_2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT_3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MONSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	DCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	DCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Short1d</i>	SCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SCUHSMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	BBCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VMSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM1STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM2STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM3STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VMSTATAFX (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE0 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS0 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUM15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CPULOAD (description="Parameter Value", quantity="1")
<i>Long1d</i>	LSLOAD (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAFRMS (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATASTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWPHASE (description="Parameter Value", quantity="1")

<i>Int1d</i>	PMWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET5 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET6 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMLWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	TC_VDD_JFET (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET3V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET6V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET3V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCJFETV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET1 (description="Parameter Value", quantity="1")

<i>ShortId</i>	SSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>IntId</i>	SSWJFET1V (description="Parameter Value", quantity="1")
<i>IntId</i>	SSWJFET2V (description="Parameter Value", quantity="1")
<i>IntId</i>	SLWJFET1V (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECHTRV (description="Parameter Value", quantity="1")
<i>IntId</i>	TC1TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	TC2TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	TC3TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	BIASP5V (description="Parameter Value", quantity="1")
<i>IntId</i>	BIASP9V (description="Parameter Value", quantity="1")
<i>IntId</i>	BIASM9V (description="Parameter Value", quantity="1")
<i>IntId</i>	OBSVER (description="Parameter Value", quantity="1")
<i>ShortId</i>	OBSVER1 (description="Parameter Value", quantity="1")
<i>ShortId</i>	OBSVER2 (description="Parameter Value", quantity="1")
<i>ShortId</i>	OBSVER3 (description="Parameter Value", quantity="1")
<i>IntId</i>	TMMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	FIFO_DF_FLAG (description="Parameter Value", quantity="1")
<i>IntId</i>	PLIAP5V (description="Parameter Value", quantity="1")
<i>IntId</i>	PLIAP9V (description="Parameter Value", quantity="1")
<i>IntId</i>	PLIAM9V (description="Parameter Value", quantity="1")
<i>IntId</i>	SLIAP5V (description="Parameter Value", quantity="1")
<i>IntId</i>	SLIAP9V (description="Parameter Value", quantity="1")
<i>IntId</i>	SLIAM9V (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAP9TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAP8TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAP7TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAP6TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAP5TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAP4TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAP3TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAP2TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAP1TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAS1TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAS2TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAS3TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	BIASTEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	DAQTEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	LIASSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP1STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP2STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP3STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP4STAT (description="Parameter Value", quantity="1")

<i>ShortId</i>	LIAP5STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP6STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP7STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP8STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP9STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAS1STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAS2STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAS3STAT (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUIFSTAT (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUIFCTRL (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUSSDEL (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUP5V (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUP14V (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUM14V (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUP15V (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUM15V (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUMACTEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUSMECTEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUBSMTEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUERR (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUSCHEDCNTLSW (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUSCHEDCNTMSW (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUTM10TSAMPLE (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUFRAMESTART (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUTM12TSAMPLE (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUFRAMES (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUTM14TSAMPLE (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUTM15TSAMPLE (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUTMSTATUS (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUBOOTSTAT (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUDLOADCONF (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECLOSTCOUNT (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECENCPOWER (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECLVDTPWR (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECLATCHSTAT (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECLOOPMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	SCANSTART (description="Parameter Value", quantity="1")
<i>IntId</i>	SCANEND (description="Parameter Value", quantity="1")
<i>IntId</i>	SCANFSPEED (description="Parameter Value", quantity="1")
<i>IntId</i>	SCANS (description="Parameter Value", quantity="1")
<i>IntId</i>	SCANMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECKP (description="Parameter Value", quantity="1")

<i>Int1d</i>	SMECKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTTHRESH (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORBEMF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECFLAG (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECLVDTSIGN (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECINIT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANDIR (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANCNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTACSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTDCSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTRAJPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECPOSNDELTA (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC FINEPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMEANSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECS CANPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG1AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG1OFF (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECENC SIG2OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG3AMP (description="Parameter Value", quantity="1")

<i>Int1d</i>	SMECENC SIG3OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPSENSPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSN2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPINTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFGAINDIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDIFFTC1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDIFFTC2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTIND (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGGCUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGSENSPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSN2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGINTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGFFGAIN (description="Parameter Value", quantity="1")

<i>Int1d</i>	JIGGFFGAINDIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDIFFTC1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDIFFTC2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTIND (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPONSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGCHOPCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTORVOLT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT10PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM10 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM12 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT14PARAM14 (description="Parameter Value", quantity="1")

<i>Int1d</i>	SCUIFSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSSDEL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTEMPSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBITSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	CCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMECONF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMESTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHT2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHRTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVAPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SHUNTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EMCFILTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	OPTTEMP (description="Parameter Value", quantity="1")

<i>Int1d</i>	BAFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCALTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTTCBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTEVBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTHKBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTSDBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTNTBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_HP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_LP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT10STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT12STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT14STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT15STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMINTEGRITY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTPROG (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTDATA (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPROM2RAMCOPY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBOOTMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECESELECTTAB (description="Parameter Value", quantity="1")
<i>Int1d</i>	CREC_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PTC_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGLE_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTRPBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAFAILCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG1OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG2OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	TABLE7_09_LWORD (description="Parameter Value", quantity="1")
<i>Long1d</i>	PTC_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	SCAL_GET_COMMAND (description="Parameter Value", quantity="1")

<i>LongId</i>	TABLE7_12 (description="Parameter Value", quantity="1")
<i>ShortId</i>	HK_MON_STATUS (description="Parameter Value", quantity="1")
<i>IntId</i>	CHOPJIGG_DCOUPLE (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_02 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_03 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_04 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_05 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_06 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_07 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_08 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_09 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_10 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_11 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_12 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_13 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_14 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_15 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_16 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_17 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_18 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_19 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_20 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_21 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_22 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_23 (description="Parameter Value", quantity="1")
<i>LongId</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>LongId</i>	packetTime (description="TM packet time", quantity="1")
<i>IntId</i>	seqCount (description="Sequence count", quantity="1")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.36. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product (type="RST", description="Raw SPIRE Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")

StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	type (description="Product Type Identification", quantity="arcsec/year")
StringParameter	description (description="Name of this product", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec/year")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec/year")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="arcsec/year")
StringParameter	scanSpeed (description="Speed of scan", quantity="arcsec/year")
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<i>Int1d</i>	JIGGDIFFTC2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTIND (description="Parameter Value", quantity="1")

<i>Int1d</i>	JIGGRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGCHOPCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM10 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM14 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSSDEL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTEMPSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLIABITSTAT (description="Parameter Value", quantity="1")

<i>ShortId</i>	SLIABITSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	MCUBITSTAT (description="Parameter Value", quantity="1")
<i>IntId</i>	SCUP5V (description="Parameter Value", quantity="1")
<i>IntId</i>	SCUP9V (description="Parameter Value", quantity="1")
<i>IntId</i>	SCUM9V (description="Parameter Value", quantity="1")
<i>IntId</i>	EVHSV (description="Parameter Value", quantity="1")
<i>IntId</i>	SPHSV (description="Parameter Value", quantity="1")
<i>IntId</i>	TCHTRV (description="Parameter Value", quantity="1")
<i>IntId</i>	SPHTRV (description="Parameter Value", quantity="1")
<i>IntId</i>	CCUTEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	TCUTEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	PSUTEMP1 (description="Parameter Value", quantity="1")
<i>IntId</i>	SCUFRAMECONF (description="Parameter Value", quantity="1")
<i>IntId</i>	SCUFRAMES (description="Parameter Value", quantity="1")
<i>IntId</i>	SCUFRAMESTAT (description="Parameter Value", quantity="1")
<i>IntId</i>	SCUCTRL (description="Parameter Value", quantity="1")
<i>IntId</i>	PCALV (description="Parameter Value", quantity="1")
<i>IntId</i>	SCAL2V (description="Parameter Value", quantity="1")
<i>IntId</i>	SCAL4V (description="Parameter Value", quantity="1")
<i>IntId</i>	SCUCHT2_5V (description="Parameter Value", quantity="1")
<i>IntId</i>	SCUCHTREF (description="Parameter Value", quantity="1")
<i>IntId</i>	SCUCHTGND (description="Parameter Value", quantity="1")
<i>IntId</i>	PCALCURR (description="Parameter Value", quantity="1")
<i>IntId</i>	SCAL2CURR (description="Parameter Value", quantity="1")
<i>IntId</i>	SCAL4CURR (description="Parameter Value", quantity="1")
<i>IntId</i>	PSUTEMP2 (description="Parameter Value", quantity="1")
<i>IntId</i>	SUBKSTAT (description="Parameter Value", quantity="1")
<i>IntId</i>	PUMPHTRTEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	PUMPHSTEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	EVAPHSTEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	SHUNTTEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	EMCFILTEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	SL0TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	PL0TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	OPTTEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	BAFTEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	BSMIFTEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	SCAL2TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	SCAL4TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	SCALTEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECIFTEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECTEMP (description="Parameter Value", quantity="1")

<i>Int1d</i>	BSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTTCBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTVBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTHKBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTSDBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTNTBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_HP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_LP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT10STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT12STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT14STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT15STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMINTEGRITY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTPROG (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTDATA (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPROM2RAMCOPY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBOOTMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSELECTTAB (description="Parameter Value", quantity="1")
<i>Int1d</i>	CREC_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PTC_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGLE_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTRPBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAFAILCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG1OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG2OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	TABLE7_09_LWORD (description="Parameter Value", quantity="1")
<i>Long1d</i>	PTC_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	SCAL_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	TABLE7_12 (description="Parameter Value", quantity="1")
<i>Short1d</i>	HK_MON_STATUS (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGG_DCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_07 (description="Parameter Value", quantity="1")

<i>Int1d</i>	HK_08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_10 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_14 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_15 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_16 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_17 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_18 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_19 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_20 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_21 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_22 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_23 (description="Parameter Value", quantity="1")
<i>Long1d</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>Long1d</i>	packetTime (description="TM packet time", quantity="1")
<i>Int1d</i>	seqCount (description="Sequence count", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="CHK", description="Critical HK Parameter Report")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="PHOTF", description="Photometer Full Array (Nominal Science Report)")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.37. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product (type="RST", description="Raw SPIRE Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")

DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	type (description="Product Type Identification", quantity="arcsec/year")
StringParameter	description (description="Name of this product", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec/year")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec/year")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="arcsec/year")
StringParameter	scanSpeed (description="Speed of scan", quantity="arcsec/year")
<i>Columns</i>	
<i>table dataset</i>	(name="NHK", description="Nominal HK Parameter Report")
<i>Metadata</i>	
<i>Columns</i>	

<i>ShortId</i>	NHK_VERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_TYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_DFHFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_APID (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SEGFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SSC (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTLEN (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PUSVERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTTYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTSTYPE (description="Parameter Value", quantity="1")
<i>LongId</i>	NHK_PKTCTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTFTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	BBFULLTYPE (description="Parameter Value", quantity="1")
<i>IntId</i>	MODE (description="Parameter Value", quantity="1")
<i>IntId</i>	STEP (description="Parameter Value", quantity="1")
<i>LongId</i>	THSK (description="Parameter Value", quantity="1")
<i>LongId</i>	TRESET (description="Parameter Value", quantity="1")
<i>IntId</i>	TCRECV (description="Parameter Value", quantity="1")
<i>IntId</i>	TCRECN (description="Parameter Value", quantity="1")
<i>IntId</i>	TCEXEC (description="Parameter Value", quantity="1")
<i>IntId</i>	TCEXEN (description="Parameter Value", quantity="1")
<i>IntId</i>	TM1N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM2N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM3N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM4N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM5N (description="Parameter Value", quantity="1")
<i>IntId</i>	DCUFRAMECNT (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUFRAMECNT (description="Parameter Value", quantity="1")
<i>IntId</i>	SCUFRAMECNT (description="Parameter Value", quantity="1")
<i>LongId</i>	TSYNC (description="Parameter Value", quantity="1")
<i>LongId</i>	TDIFF (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT_1 (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT_2 (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT_3 (description="Parameter Value", quantity="1")
<i>IntId</i>	MONSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	DCULSIFSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	DCUHSIFMODE (description="Parameter Value", quantity="1")
<i>ShortId</i>	MCULSIFSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	MCUHSIFMODE (description="Parameter Value", quantity="1")
<i>ShortId</i>	SCULSIFSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	SCUHSIFMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	BBCOUNT (description="Parameter Value", quantity="1")

<i>Int1d</i>	VMSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM1STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM2STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM3STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VMSTATAFX (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE0 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS0 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUM15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CPULOAD (description="Parameter Value", quantity="1")
<i>Long1d</i>	LSLOAD (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAFRMS (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATASTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET5 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET6 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMLWJFETSTAT (description="Parameter Value", quantity="1")

<i>ShortId</i>	PMW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>ShortId</i>	PMW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>ShortId</i>	PMW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>ShortId</i>	PMW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>ShortId</i>	PLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>ShortId</i>	PLW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>ShortId</i>	TC_VDD_JFET (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET1V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET2V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET3V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET4V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET5V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET6V (description="Parameter Value", quantity="1")
<i>IntId</i>	PMWJFET1V (description="Parameter Value", quantity="1")
<i>IntId</i>	PMWJFET2V (description="Parameter Value", quantity="1")
<i>IntId</i>	PMWJFET3V (description="Parameter Value", quantity="1")
<i>IntId</i>	PMWJFET4V (description="Parameter Value", quantity="1")
<i>IntId</i>	PLWJFET1V (description="Parameter Value", quantity="1")
<i>IntId</i>	PLWJFET2V (description="Parameter Value", quantity="1")
<i>IntId</i>	PHOTHTRV (description="Parameter Value", quantity="1")
<i>IntId</i>	TCJFETV (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECBIASDIV (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECBIASMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECMCLKDIV (description="Parameter Value", quantity="1")
<i>IntId</i>	SSWBIAS (description="Parameter Value", quantity="1")
<i>IntId</i>	SLWBIAS (description="Parameter Value", quantity="1")
<i>IntId</i>	SSWPHASE (description="Parameter Value", quantity="1")
<i>IntId</i>	SLWPHASE (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECJFETSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	SLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>ShortId</i>	SSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>ShortId</i>	SSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>IntId</i>	SSWJFET1V (description="Parameter Value", quantity="1")
<i>IntId</i>	SSWJFET2V (description="Parameter Value", quantity="1")
<i>IntId</i>	SLWJFET1V (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECHTRV (description="Parameter Value", quantity="1")
<i>IntId</i>	TC1TEMP (description="Parameter Value", quantity="1")
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<i>IntId</i>	TC3TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	BIASP5V (description="Parameter Value", quantity="1")
<i>IntId</i>	BIASP9V (description="Parameter Value", quantity="1")
<i>IntId</i>	BIASM9V (description="Parameter Value", quantity="1")

<i>Int1d</i>	OBSVER (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	TMMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	FIFO_DF_FLAG (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP9V (description="Parameter Value", quantity="1")
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<i>Int1d</i>	LIAS3TEMP (description="Parameter Value", quantity="1")
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<i>Int1d</i>	DAQTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIASSTAT (description="Parameter Value", quantity="1")
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<i>Short1d</i>	LIAP4STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP5STAT (description="Parameter Value", quantity="1")
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<i>Short1d</i>	LIAP7STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP8STAT (description="Parameter Value", quantity="1")
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<i>Short1d</i>	LIAS2STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS3STAT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUM15V (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUBSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTLSW (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTMSW (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUFRAMESTART (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM12TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUFRAMES (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM14TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM15TSAMPLE (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECLATCHSTAT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCANEND (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCANS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANMODE (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTLIMIT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECDFILT2 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECMOTORRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORBEMF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECFLAG (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECLVDTSIGN (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECINIT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANDIR (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANCNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG1 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECLVDTACSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTDCSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTRAJPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDACVAL (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECENCFINEPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMEANSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSCANPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORVOLT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECENCSIG2OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG3AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG3OFF (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOPPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSN2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMMODE (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOPKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPINTREF (description="Parameter Value", quantity="1")

<i>Int1d</i>	CHOPINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFGAINDIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDIFFTC1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDIFFTC2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTIND (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGGCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGSENSPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSN2 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKI (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGINTLIMIT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGFFGAINDIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDIFFTC1 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTIND (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL2 (description="Parameter Value", quantity="1")

<i>Int1d</i>	JIGGCHOPCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM03 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT12PARM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM03 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT12PARM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM01 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT14PARM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM06 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT14PARM08 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT14PARM13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM14 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCUIFCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSSDEL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTEMPSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBITSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP9V (description="Parameter Value", quantity="1")

<i>Int1d</i>	SCUM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHTRV (description="Parameter Value", quantity="1")
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<i>Int1d</i>	TCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMECONF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMESTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHT2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHTRTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVAPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SHUNTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EMCFILTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	OPTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BAFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCALTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTGND (description="Parameter Value", quantity="1")

<i>Int1d</i>	LOSTTCBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTVBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTHKBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTSDBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTNTBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_HP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_LP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT10STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT12STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT14STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT15STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMINTEGRITY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTPROG (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTDATA (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPROM2RAMCOPY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBOOTMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSELECTTAB (description="Parameter Value", quantity="1")
<i>Int1d</i>	CREC_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PTC_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGLE_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTRPBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAFAILCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG1OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG2OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	TABLE7_09_LWORD (description="Parameter Value", quantity="1")
<i>Long1d</i>	PTC_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	SCAL_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	TABLE7_12 (description="Parameter Value", quantity="1")
<i>Short1d</i>	HK_MON_STATUS (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGG_DCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_10 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_11 (description="Parameter Value", quantity="1")

<i>Int1d</i>	HK_12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_14 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_15 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_16 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_17 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_18 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_19 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_20 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_21 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_22 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_23 (description="Parameter Value", quantity="1")
<i>Long1d</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>Long1d</i>	packetTime (description="TM packet time", quantity="1")
<i>Int1d</i>	seqCount (description="Sequence count", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="CHK", description="Critical HK Parameter Report")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="PHOTOFF", description="Photometer Offsets")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.38. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product (type="RST", description="Raw SPIRE Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")

StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="km s-1")
<i>Columns</i>	
<i>table dataset</i>	(name="NHK", description="Nominal HK Parameter Report")
<i>Metadata</i>	
<i>Columns</i>	
<i>ShortId</i>	NHK_VERS (description="Parameter Value", quantity="1")

<i>ShortId</i>	NHK_TYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_DFHFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_APID (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SEGFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SSC (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTLEN (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PUSVERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTTYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTSTYPE (description="Parameter Value", quantity="1")
<i>LongId</i>	NHK_PKTCTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTFTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	BBFULLTYPE (description="Parameter Value", quantity="1")
<i>IntId</i>	MODE (description="Parameter Value", quantity="1")
<i>IntId</i>	STEP (description="Parameter Value", quantity="1")
<i>LongId</i>	THSK (description="Parameter Value", quantity="1")
<i>LongId</i>	TRESET (description="Parameter Value", quantity="1")
<i>IntId</i>	TCRECV (description="Parameter Value", quantity="1")
<i>IntId</i>	TCRECN (description="Parameter Value", quantity="1")
<i>IntId</i>	TCEXEC (description="Parameter Value", quantity="1")
<i>IntId</i>	TCEXEN (description="Parameter Value", quantity="1")
<i>IntId</i>	TM1N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM2N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM3N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM4N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM5N (description="Parameter Value", quantity="1")
<i>IntId</i>	DCUFRAMECNT (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUFRAMECNT (description="Parameter Value", quantity="1")
<i>IntId</i>	SCUFRAMECNT (description="Parameter Value", quantity="1")
<i>LongId</i>	TSYNC (description="Parameter Value", quantity="1")
<i>LongId</i>	TDIFF (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT_1 (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT_2 (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT_3 (description="Parameter Value", quantity="1")
<i>IntId</i>	MONSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	DCULSIFSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	DCUHSIFMODE (description="Parameter Value", quantity="1")
<i>ShortId</i>	MCULSIFSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	MCUHSIFMODE (description="Parameter Value", quantity="1")
<i>ShortId</i>	SCULSIFSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	SCUHSIFMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	BBCOUNT (description="Parameter Value", quantity="1")
<i>IntId</i>	VMSTAT (description="Parameter Value", quantity="1")

<i>Int1d</i>	VM1STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM2STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM3STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VMSTATAFX (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE0 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS0 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUM15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CPULOAD (description="Parameter Value", quantity="1")
<i>Long1d</i>	LSLOAD (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAFRMS (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATASTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET5 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET6 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMLWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET1 (description="Parameter Value", quantity="1")

<i>ShortId</i>	PMW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>ShortId</i>	PMW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>ShortId</i>	PMW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>ShortId</i>	PLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>ShortId</i>	PLW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>ShortId</i>	TC_VDD_JFET (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET1V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET2V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET3V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET4V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET5V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET6V (description="Parameter Value", quantity="1")
<i>IntId</i>	PMWJFET1V (description="Parameter Value", quantity="1")
<i>IntId</i>	PMWJFET2V (description="Parameter Value", quantity="1")
<i>IntId</i>	PMWJFET3V (description="Parameter Value", quantity="1")
<i>IntId</i>	PMWJFET4V (description="Parameter Value", quantity="1")
<i>IntId</i>	PLWJFET1V (description="Parameter Value", quantity="1")
<i>IntId</i>	PLWJFET2V (description="Parameter Value", quantity="1")
<i>IntId</i>	PHOTHTRV (description="Parameter Value", quantity="1")
<i>IntId</i>	TCJFETV (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECBIASDIV (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECBIASMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECMCLKDIV (description="Parameter Value", quantity="1")
<i>IntId</i>	SSWBIAS (description="Parameter Value", quantity="1")
<i>IntId</i>	SLWBIAS (description="Parameter Value", quantity="1")
<i>IntId</i>	SSWPHASE (description="Parameter Value", quantity="1")
<i>IntId</i>	SLWPHASE (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECJFETSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	SLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>ShortId</i>	SSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>ShortId</i>	SSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>IntId</i>	SSWJFET1V (description="Parameter Value", quantity="1")
<i>IntId</i>	SSWJFET2V (description="Parameter Value", quantity="1")
<i>IntId</i>	SLWJFET1V (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECHTRV (description="Parameter Value", quantity="1")
<i>IntId</i>	TC1TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	TC2TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	TC3TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	BIASP5V (description="Parameter Value", quantity="1")
<i>IntId</i>	BIASP9V (description="Parameter Value", quantity="1")
<i>IntId</i>	BIASM9V (description="Parameter Value", quantity="1")
<i>IntId</i>	OBSVER (description="Parameter Value", quantity="1")

<i>ShortId</i>	OBSVER1 (description="Parameter Value", quantity="1")
<i>ShortId</i>	OBSVER2 (description="Parameter Value", quantity="1")
<i>ShortId</i>	OBSVER3 (description="Parameter Value", quantity="1")
<i>IntId</i>	TMMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	FIFO_DF_FLAG (description="Parameter Value", quantity="1")
<i>IntId</i>	PLIAP5V (description="Parameter Value", quantity="1")
<i>IntId</i>	PLIAP9V (description="Parameter Value", quantity="1")
<i>IntId</i>	PLIAM9V (description="Parameter Value", quantity="1")
<i>IntId</i>	SLIAP5V (description="Parameter Value", quantity="1")
<i>IntId</i>	SLIAP9V (description="Parameter Value", quantity="1")
<i>IntId</i>	SLIAM9V (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAP9TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAP8TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAP7TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAP6TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAP5TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAP4TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAP3TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAP2TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAP1TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAS1TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAS2TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAS3TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	BIASTEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	DAQTEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	LIASSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP1STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP2STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP3STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP4STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP5STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP6STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP7STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP8STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP9STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAS1STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAS2STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAS3STAT (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUIFSTAT (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUIFCTRL (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUSSDEL (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUP5V (description="Parameter Value", quantity="1")

<i>Int1d</i>	MCUP14V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUM14V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUM15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUMACTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUBSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTLSW (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTMSW (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM10TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUFRAMESTART (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM12TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUFRAMES (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM14TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM15TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTMSTATUS (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUBOOTSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUDLOADCONF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLOSTCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLATCHSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANSTART (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANEND (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANFSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTTHRESH (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORRES (description="Parameter Value", quantity="1")

<i>Int1d</i>	SMECMOTORBEMF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECFLAG (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECLVDTSIGN (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECINIT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANDIR (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANCNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTACSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTDCSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTRAJPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECPOSNDELTA (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCFINEPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMEANSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSKANPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG1AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG1OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG2AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG2OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG3AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG3OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPSENSPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSN2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPINTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPINTLIMIT (description="Parameter Value", quantity="1")

<i>Int1d</i>	CHOPFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFGAINDIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDIFFTC1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDIFFTC2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTIND (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGGCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGSENSPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSN2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGINTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGFFGAINDIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDIFFTC1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDIFFTC2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTIND (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGCHOPCOUPLE (description="Parameter Value", quantity="1")

<i>Int1d</i>	JIGGPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM10 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM14 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSSDEL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTEMPSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBITSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUM9V (description="Parameter Value", quantity="1")

<i>Int1d</i>	EVHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	CCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMECONF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMESTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHT2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHRTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVAPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SHUNTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EMCFILTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	OPTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BAFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCALTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTTCBLOCK (description="Parameter Value", quantity="1")

<i>Int1d</i>	LOSTVBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTHKBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTSDBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTNTBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_HP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_LP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT10STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT12STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT14STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT15STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMINTEGRITY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTPROG (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTDATA (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPROM2RAMCOPY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBOOTMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSELECTTAB (description="Parameter Value", quantity="1")
<i>Int1d</i>	CREC_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PTC_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGLE_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTRPBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAFAILCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG1OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG2OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	TABLE7_09_LWORD (description="Parameter Value", quantity="1")
<i>Long1d</i>	PTC_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	SCAL_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	TABLE7_12 (description="Parameter Value", quantity="1")
<i>Short1d</i>	HK_MON_STATUS (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGG_DCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_10 (description="Parameter Value", quantity="1")

<i>Int1d</i>	HK_11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_14 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_15 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_16 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_17 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_18 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_19 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_20 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_21 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_22 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_23 (description="Parameter Value", quantity="1")
<i>Long1d</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>Long1d</i>	packetTime (description="TM packet time", quantity="1")
<i>Int1d</i>	seqCount (description="Sequence count", quantity="1")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.39. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product (type="RST", description="Raw SPIRE Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")

StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="km s-1")
<i>Columns</i>	
<i>table dataset</i>	(name="NHK", description="Nominal HK Parameter Report")
<i>Metadata</i>	
<i>Columns</i>	
<i>ShortId</i>	NHK_VERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_TYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_DFHFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_APID (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SEGFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SSC (description="Parameter Value", quantity="1")

<i>Int1d</i>	NHK_PKTLEN (description="Parameter Value", quantity="1")
<i>Short1d</i>	NHK_PUSVERS (description="Parameter Value", quantity="1")
<i>Short1d</i>	NHK_PKTTYPE (description="Parameter Value", quantity="1")
<i>Short1d</i>	NHK_PKTSTYPE (description="Parameter Value", quantity="1")
<i>Long1d</i>	NHK_PKTCTIME (description="Parameter Value", quantity="1")
<i>Int1d</i>	NHK_PKTFTIME (description="Parameter Value", quantity="1")
<i>Int1d</i>	BBFULLTYPE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	STEP (description="Parameter Value", quantity="1")
<i>Long1d</i>	THSK (description="Parameter Value", quantity="1")
<i>Long1d</i>	TRESET (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCRECV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCRECN (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCEXEC (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCEXEN (description="Parameter Value", quantity="1")
<i>Int1d</i>	TM1N (description="Parameter Value", quantity="1")
<i>Int1d</i>	TM2N (description="Parameter Value", quantity="1")
<i>Int1d</i>	TM3N (description="Parameter Value", quantity="1")
<i>Int1d</i>	TM4N (description="Parameter Value", quantity="1")
<i>Int1d</i>	TM5N (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUFRAMECNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUFRAMECNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMECNT (description="Parameter Value", quantity="1")
<i>Long1d</i>	TSYNC (description="Parameter Value", quantity="1")
<i>Long1d</i>	TDIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT_1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT_2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT_3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MONSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	DCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	DCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Short1d</i>	SCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	BBCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VMSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM1STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM2STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM3STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VMSTATAFX (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE0 (description="Parameter Value", quantity="1")

<i>Int1d</i>	SD_ADDRESS0 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUM15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CPULOAD (description="Parameter Value", quantity="1")
<i>Long1d</i>	LSLOAD (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAFRMS (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATASTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET5 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET6 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMLWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET2 (description="Parameter Value", quantity="1")

<i>ShortId</i>	TC_VDD_JFET (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET1V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET2V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET3V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET4V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET5V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET6V (description="Parameter Value", quantity="1")
<i>IntId</i>	PMWJFET1V (description="Parameter Value", quantity="1")
<i>IntId</i>	PMWJFET2V (description="Parameter Value", quantity="1")
<i>IntId</i>	PMWJFET3V (description="Parameter Value", quantity="1")
<i>IntId</i>	PMWJFET4V (description="Parameter Value", quantity="1")
<i>IntId</i>	PLWJFET1V (description="Parameter Value", quantity="1")
<i>IntId</i>	PLWJFET2V (description="Parameter Value", quantity="1")
<i>IntId</i>	PHOTHTRV (description="Parameter Value", quantity="1")
<i>IntId</i>	TCJFETV (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECBIASDIV (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECBIASMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECMCLKDIV (description="Parameter Value", quantity="1")
<i>IntId</i>	SSWBIAS (description="Parameter Value", quantity="1")
<i>IntId</i>	SLWBIAS (description="Parameter Value", quantity="1")
<i>IntId</i>	SSWPHASE (description="Parameter Value", quantity="1")
<i>IntId</i>	SLWPHASE (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECJFETSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	SLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>ShortId</i>	SSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>ShortId</i>	SSW_VDD_JFET2 (description="Parameter Value", quantity="1")
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<i>IntId</i>	SSWJFET2V (description="Parameter Value", quantity="1")
<i>IntId</i>	SLWJFET1V (description="Parameter Value", quantity="1")
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<i>IntId</i>	TC3TEMP (description="Parameter Value", quantity="1")
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<i>IntId</i>	BIASP9V (description="Parameter Value", quantity="1")
<i>IntId</i>	BIASM9V (description="Parameter Value", quantity="1")
<i>IntId</i>	OBSVER (description="Parameter Value", quantity="1")
<i>ShortId</i>	OBSVER1 (description="Parameter Value", quantity="1")
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<i>ShortId</i>	OBSVER3 (description="Parameter Value", quantity="1")
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<i>IntId</i>	FIFO_DF_FLAG (description="Parameter Value", quantity="1")

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<i>Int1d</i>	PLIAP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAP9V (description="Parameter Value", quantity="1")
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<i>Int1d</i>	LIAP7TEMP (description="Parameter Value", quantity="1")
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<i>Int1d</i>	LIAP4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP1TEMP (description="Parameter Value", quantity="1")
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<i>Int1d</i>	LIAS2TEMP (description="Parameter Value", quantity="1")
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<i>Int1d</i>	BIASTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	DAQTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIASSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP1STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP2STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP3STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP4STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP5STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP6STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP7STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP8STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP9STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS1STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS2STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS3STAT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUIFCTRL (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUP14V (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUSCHEDCNTLSW (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTMSW (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUFRAMESTART (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM12TSAMPLE (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUTM15TSAMPLE (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECLATCHSTAT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCANFSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTLIMIT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCANRSPEED (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECMOTORRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORBEMF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTSSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSTAT (description="Parameter Value", quantity="1")

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<i>ShortId</i>	SMECSCANCNT (description="Parameter Value", quantity="1")
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<i>IntId</i>	SMECENC SIG1 (description="Parameter Value", quantity="1")
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<i>IntId</i>	SMECENC SIG3 (description="Parameter Value", quantity="1")
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<i>IntId</i>	SMECLVDTDC SIG (description="Parameter Value", quantity="1")
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<i>IntId</i>	SMECDACVAL (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECPOSNDELTA (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECENC FINEPOSN (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECMEANSPEED (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECSCANPOSNERR (description="Parameter Value", quantity="1")
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<i>IntId</i>	SMECMOTORVOLT (description="Parameter Value", quantity="1")
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<i>IntId</i>	SMECENC SIG2OFF (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECENC SIG3AMP (description="Parameter Value", quantity="1")
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<i>IntId</i>	CHOPPOSN (description="Parameter Value", quantity="1")
<i>IntId</i>	CHOPPOSN2 (description="Parameter Value", quantity="1")
<i>IntId</i>	BSMMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	CHOPFFOFFSET (description="Parameter Value", quantity="1")
<i>IntId</i>	CHOPKP (description="Parameter Value", quantity="1")
<i>IntId</i>	CHOPKD (description="Parameter Value", quantity="1")
<i>IntId</i>	CHOPKI (description="Parameter Value", quantity="1")
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<i>IntId</i>	CHOPFFGAIN (description="Parameter Value", quantity="1")
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<i>IntId</i>	CHOPDIFFTC1 (description="Parameter Value", quantity="1")
<i>IntId</i>	CHOPDIFFTC2 (description="Parameter Value", quantity="1")
<i>IntId</i>	CHOPRATELIMIT (description="Parameter Value", quantity="1")

<i>Int1d</i>	CHOPMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTIND (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGGCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORCURR (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKI (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTIND (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGCHOPCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSNERR (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT14PARM09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM10 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCUSSDEL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSTAT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCUDCDCSTAT (description="Parameter Value", quantity="1")
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<i>Short1d</i>	SLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBITSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHTRV (description="Parameter Value", quantity="1")
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<i>Int1d</i>	TCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMECONF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMESTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALV (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCAL4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHT2_5V (description="Parameter Value", quantity="1")
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<i>Int1d</i>	PCALCURR (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCAL4CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKSTAT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	EVAPHSTEMP (description="Parameter Value", quantity="1")
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<i>Int1d</i>	EMCFILTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SL0TEMP (description="Parameter Value", quantity="1")
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<i>Int1d</i>	OPTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BAFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMIFTEMP (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCAL4TEMP (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTTCBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTEVBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTHKBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTSDBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTNTBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_HP_FIFOSTAT (description="Parameter Value", quantity="1")

<i>Int1d</i>	LS_LP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT10STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT12STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT14STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT15STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMINTEGRITY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTPROG (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTDATA (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPROM2RAMCOPY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBOOTMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSELECTTAB (description="Parameter Value", quantity="1")
<i>Int1d</i>	CREC_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PTC_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGLE_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTRPBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAFAILCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG1OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG2OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	TABLE7_09_LWORD (description="Parameter Value", quantity="1")
<i>Long1d</i>	PTC_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	SCAL_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	TABLE7_12 (description="Parameter Value", quantity="1")
<i>Short1d</i>	HK_MON_STATUS (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGG_DCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_10 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_14 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_15 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_16 (description="Parameter Value", quantity="1")

<i>Int1d</i>	HK_17 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_18 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_19 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_20 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_21 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_22 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_23 (description="Parameter Value", quantity="1")
<i>Long1d</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>Long1d</i>	packetTime (description="TM packet time", quantity="1")
<i>Int1d</i>	seqCount (description="Sequence count", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="CHK", description="Critical HK Parameter Report")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.40. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product (type="RST", description="Raw SPIRE Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")

LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="km s-1")
Columns	
table dataset	(name="NHK", description="Nominal HK Parameter Report")
Metadata	
Columns	
ShortId	NHK_VERS (description="Parameter Value", quantity="1")
ShortId	NHK_TYPE (description="Parameter Value", quantity="1")
ShortId	NHK_DFHFLAG (description="Parameter Value", quantity="1")
ShortId	NHK_APIID (description="Parameter Value", quantity="1")

<i>ShortId</i>	NHK_SEGFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SSC (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTLEN (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PUSVERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTTYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTSTYPE (description="Parameter Value", quantity="1")
<i>LongId</i>	NHK_PKTCTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTFTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	BBFULLTYPE (description="Parameter Value", quantity="1")
<i>IntId</i>	MODE (description="Parameter Value", quantity="1")
<i>IntId</i>	STEP (description="Parameter Value", quantity="1")
<i>LongId</i>	THSK (description="Parameter Value", quantity="1")
<i>LongId</i>	TRESET (description="Parameter Value", quantity="1")
<i>IntId</i>	TCRECV (description="Parameter Value", quantity="1")
<i>IntId</i>	TCRECN (description="Parameter Value", quantity="1")
<i>IntId</i>	TCEXEC (description="Parameter Value", quantity="1")
<i>IntId</i>	TCEXEN (description="Parameter Value", quantity="1")
<i>IntId</i>	TM1N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM2N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM3N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM4N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM5N (description="Parameter Value", quantity="1")
<i>IntId</i>	DCUFRAMECNT (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUFRAMECNT (description="Parameter Value", quantity="1")
<i>IntId</i>	SCUFRAMECNT (description="Parameter Value", quantity="1")
<i>LongId</i>	TSYNC (description="Parameter Value", quantity="1")
<i>LongId</i>	TDIFF (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT_1 (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT_2 (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT_3 (description="Parameter Value", quantity="1")
<i>IntId</i>	MONSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	DCULSIFSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	DCUHSIFMODE (description="Parameter Value", quantity="1")
<i>ShortId</i>	MCULSIFSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	MCUHSIFMODE (description="Parameter Value", quantity="1")
<i>ShortId</i>	SCULSIFSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	SCUHSIFMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	BBCOUNT (description="Parameter Value", quantity="1")
<i>IntId</i>	VMSTAT (description="Parameter Value", quantity="1")
<i>IntId</i>	VM1STAT (description="Parameter Value", quantity="1")
<i>IntId</i>	VM2STAT (description="Parameter Value", quantity="1")
<i>IntId</i>	VM3STAT (description="Parameter Value", quantity="1")

<i>Int1d</i>	VMSTATAFX (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE0 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS0 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUM15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CPULOAD (description="Parameter Value", quantity="1")
<i>Long1d</i>	LSLOAD (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAFRMS (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATASTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET5 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET6 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMLWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET4 (description="Parameter Value", quantity="1")

<i>ShortId</i>	PLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>ShortId</i>	PLW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>ShortId</i>	TC_VDD_JFET (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET1V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET2V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET3V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET4V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET5V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET6V (description="Parameter Value", quantity="1")
<i>IntId</i>	PMWJFET1V (description="Parameter Value", quantity="1")
<i>IntId</i>	PMWJFET2V (description="Parameter Value", quantity="1")
<i>IntId</i>	PMWJFET3V (description="Parameter Value", quantity="1")
<i>IntId</i>	PMWJFET4V (description="Parameter Value", quantity="1")
<i>IntId</i>	PLWJFET1V (description="Parameter Value", quantity="1")
<i>IntId</i>	PLWJFET2V (description="Parameter Value", quantity="1")
<i>IntId</i>	PHOTHTRV (description="Parameter Value", quantity="1")
<i>IntId</i>	TCJFETV (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECBIASDIV (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECBIASMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECMCLKDIV (description="Parameter Value", quantity="1")
<i>IntId</i>	SSWBIAS (description="Parameter Value", quantity="1")
<i>IntId</i>	SLWBIAS (description="Parameter Value", quantity="1")
<i>IntId</i>	SSWPHASE (description="Parameter Value", quantity="1")
<i>IntId</i>	SLWPHASE (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECJFETSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	SLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>ShortId</i>	SSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>ShortId</i>	SSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>IntId</i>	SSWJFET1V (description="Parameter Value", quantity="1")
<i>IntId</i>	SSWJFET2V (description="Parameter Value", quantity="1")
<i>IntId</i>	SLWJFET1V (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECHTRV (description="Parameter Value", quantity="1")
<i>IntId</i>	TC1TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	TC2TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	TC3TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	BIASP5V (description="Parameter Value", quantity="1")
<i>IntId</i>	BIASP9V (description="Parameter Value", quantity="1")
<i>IntId</i>	BIASM9V (description="Parameter Value", quantity="1")
<i>IntId</i>	OBSVER (description="Parameter Value", quantity="1")
<i>ShortId</i>	OBSVER1 (description="Parameter Value", quantity="1")
<i>ShortId</i>	OBSVER2 (description="Parameter Value", quantity="1")
<i>ShortId</i>	OBSVER3 (description="Parameter Value", quantity="1")

<i>Int1d</i>	TMMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	FIFO_DF_FLAG (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP9TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP8TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP7TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP6TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP5TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	DAQTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIASSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP1STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP2STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP3STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP4STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP5STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP6STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP7STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP8STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP9STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS1STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS2STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS3STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUIFSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUIFCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSSDEL (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP14V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUM14V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP15V (description="Parameter Value", quantity="1")

<i>Int1d</i>	MCUM15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUMACTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUBSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTLSW (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTMSW (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM10TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUFRAMESTART (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM12TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUFRAMES (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM14TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM15TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTMSTATUS (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUBOOTSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUDLOADCONF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLOSTCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLATCHSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANSTART (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANEND (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANFSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTTHRESH (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORBEMF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTOFFSET (description="Parameter Value", quantity="1")

<i>Int1d</i>	SMECLVDTSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECFLAG (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECLVDTSIGN (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECINIT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANDIR (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANCNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTACSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTDCSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTRAJPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECPOSNDELTA (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCFINEPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMEANSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSKANPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG1AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG1OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG2AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG2OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG3AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG3OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPSENSPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSN2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPINTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFGAINDIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDIFFTC1 (description="Parameter Value", quantity="1")

<i>Int1d</i>	CHOPDIFFTC2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTIND (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGGCUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGSENPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSN2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGINTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGFFGAINDIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDIFFTC1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDIFFTC2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTIND (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGCHOPCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDACVAL (description="Parameter Value", quantity="1")

<i>Int1d</i>	JIGGMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM10 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM14 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSSDEL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTEMPSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBITSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCHTRV (description="Parameter Value", quantity="1")

<i>Int1d</i>	SPHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	CCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMECONF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMESTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHT2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHTRTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVAPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SHUNTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EMCFILTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	OPTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BAFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCALTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTTCBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTTEVBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTHKBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTSDBLOCK (description="Parameter Value", quantity="1")

<i>Int1d</i>	LOSTNTBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_HP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_LP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT10STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT12STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT14STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT15STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMINTEGRITY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTPROG (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTDATA (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPROM2RAMCOPY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBOOTMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSELECTTAB (description="Parameter Value", quantity="1")
<i>Int1d</i>	CREC_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PTC_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGLE_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTRPBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAFAILCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG1OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG2OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	TABLE7_09_LWORD (description="Parameter Value", quantity="1")
<i>Long1d</i>	PTC_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	SCAL_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	TABLE7_12 (description="Parameter Value", quantity="1")
<i>Short1d</i>	HK_MON_STATUS (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGG_DCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_10 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_14 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_15 (description="Parameter Value", quantity="1")

<i>Int1d</i>	HK_16 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_17 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_18 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_19 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_20 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_21 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_22 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_23 (description="Parameter Value", quantity="1")
<i>Long1d</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>Long1d</i>	packetTime (description="TM packet time", quantity="1")
<i>Int1d</i>	seqCount (description="Sequence count", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="CHK", description="Critical HK Parameter Report")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="MCUENG", description="M-CU Engineering Block")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.41. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product (type="RST", description="Raw SPIRE Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")

StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="km s-1")
<i>Columns</i>	
<i>table dataset</i>	(name="NHK", description="Nominal HK Parameter Report")
<i>Metadata</i>	
<i>Columns</i>	
<i>ShortId</i>	NHK_VERS (description="Parameter Value", quantity="1")

<i>ShortId</i>	NHK_TYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_DFHFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_APID (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SEGFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SSC (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTLEN (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PUSVERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTTYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTSTYPE (description="Parameter Value", quantity="1")
<i>LongId</i>	NHK_PKTCTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTFTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	BBFULLTYPE (description="Parameter Value", quantity="1")
<i>IntId</i>	MODE (description="Parameter Value", quantity="1")
<i>IntId</i>	STEP (description="Parameter Value", quantity="1")
<i>LongId</i>	THSK (description="Parameter Value", quantity="1")
<i>LongId</i>	TRESET (description="Parameter Value", quantity="1")
<i>IntId</i>	TCRECV (description="Parameter Value", quantity="1")
<i>IntId</i>	TCRECN (description="Parameter Value", quantity="1")
<i>IntId</i>	TCEXEC (description="Parameter Value", quantity="1")
<i>IntId</i>	TCEXEN (description="Parameter Value", quantity="1")
<i>IntId</i>	TM1N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM2N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM3N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM4N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM5N (description="Parameter Value", quantity="1")
<i>IntId</i>	DCUFRAMECNT (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUFRAMECNT (description="Parameter Value", quantity="1")
<i>IntId</i>	SCUFRAMECNT (description="Parameter Value", quantity="1")
<i>LongId</i>	TSYNC (description="Parameter Value", quantity="1")
<i>LongId</i>	TDIFF (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT_1 (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT_2 (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT_3 (description="Parameter Value", quantity="1")
<i>IntId</i>	MONSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	DCULSIFSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	DCUHSIFMODE (description="Parameter Value", quantity="1")
<i>ShortId</i>	MCULSIFSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	MCUHSIFMODE (description="Parameter Value", quantity="1")
<i>ShortId</i>	SCULSIFSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	SCUHSIFMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	BBCOUNT (description="Parameter Value", quantity="1")
<i>IntId</i>	VMSTAT (description="Parameter Value", quantity="1")

<i>Int1d</i>	VM1STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM2STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM3STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VMSTATAFX (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE0 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS0 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUM15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CPULOAD (description="Parameter Value", quantity="1")
<i>Long1d</i>	LSLOAD (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAFRMS (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATASTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET5 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET6 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMLWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET1 (description="Parameter Value", quantity="1")

<i>ShortId</i>	PMW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>ShortId</i>	PMW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>ShortId</i>	PMW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>ShortId</i>	PLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>ShortId</i>	PLW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>ShortId</i>	TC_VDD_JFET (description="Parameter Value", quantity="1")
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<i>IntId</i>	PSWJFET2V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET3V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET4V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET5V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET6V (description="Parameter Value", quantity="1")
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<i>IntId</i>	PMWJFET2V (description="Parameter Value", quantity="1")
<i>IntId</i>	PMWJFET3V (description="Parameter Value", quantity="1")
<i>IntId</i>	PMWJFET4V (description="Parameter Value", quantity="1")
<i>IntId</i>	PLWJFET1V (description="Parameter Value", quantity="1")
<i>IntId</i>	PLWJFET2V (description="Parameter Value", quantity="1")
<i>IntId</i>	PHOTHTRV (description="Parameter Value", quantity="1")
<i>IntId</i>	TCJFETV (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECBIASDIV (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECBIASMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECMCLKDIV (description="Parameter Value", quantity="1")
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<i>IntId</i>	SLWBIAS (description="Parameter Value", quantity="1")
<i>IntId</i>	SSWPHASE (description="Parameter Value", quantity="1")
<i>IntId</i>	SLWPHASE (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECJFETSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	SLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>ShortId</i>	SSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>ShortId</i>	SSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>IntId</i>	SSWJFET1V (description="Parameter Value", quantity="1")
<i>IntId</i>	SSWJFET2V (description="Parameter Value", quantity="1")
<i>IntId</i>	SLWJFET1V (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECHTRV (description="Parameter Value", quantity="1")
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<i>IntId</i>	TC3TEMP (description="Parameter Value", quantity="1")
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<i>IntId</i>	BIASP9V (description="Parameter Value", quantity="1")
<i>IntId</i>	BIASM9V (description="Parameter Value", quantity="1")
<i>IntId</i>	OBSVER (description="Parameter Value", quantity="1")

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<i>ShortId</i>	OBSVER2 (description="Parameter Value", quantity="1")
<i>ShortId</i>	OBSVER3 (description="Parameter Value", quantity="1")
<i>IntId</i>	TMMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	FIFO_DF_FLAG (description="Parameter Value", quantity="1")
<i>IntId</i>	PLIAP5V (description="Parameter Value", quantity="1")
<i>IntId</i>	PLIAP9V (description="Parameter Value", quantity="1")
<i>IntId</i>	PLIAM9V (description="Parameter Value", quantity="1")
<i>IntId</i>	SLIAP5V (description="Parameter Value", quantity="1")
<i>IntId</i>	SLIAP9V (description="Parameter Value", quantity="1")
<i>IntId</i>	SLIAM9V (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAP9TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAP8TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAP7TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAP6TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAP5TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAP4TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAP3TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAP2TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAP1TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAS1TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAS2TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAS3TEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	BIASTEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	DAQTEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	LIASSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP1STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP2STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP3STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP4STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP5STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP6STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP7STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP8STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP9STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAS1STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAS2STAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAS3STAT (description="Parameter Value", quantity="1")
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<i>IntId</i>	MCUIFCTRL (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUSSDEL (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUP5V (description="Parameter Value", quantity="1")

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<i>Int1d</i>	MCUM14V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUM15V (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUSMECTEMP (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUSCHEDCNTLSW (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTMSW (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUBOOTSTAT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCANEND (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANFSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTTHRESH (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFGAIN (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCANRSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECBEMFGAIN (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECMOTORBEMF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECFLAG (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECLVDTSIGN (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECINIT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANDIR (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANCNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG2 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECLVDTACSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTDCSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTRAJPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECPOSNDELTA (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCFINEPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMEANSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSKANPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORCURR (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECENCSIG2AMP (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECENCSIG3OFF (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOPPOSN2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPINTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPINTLIMIT (description="Parameter Value", quantity="1")

<i>Int1d</i>	CHOPFFGAIN (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOPDIFFTC1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDIFFTC2 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOPMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTIND (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGGCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMSTAT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOPSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDACVAL (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOPMOTORVOLT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGLOOPMODE (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGINTREF (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGFFGAINDIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDIFFTC1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDIFFTC2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTIND (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGPOSNSCALE (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGCHOPCOUPLE (description="Parameter Value", quantity="1")

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<i>Int1d</i>	MCUPCKT12PARM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM06 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT14PARM07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM10 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT14PARM14 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCUIFCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSSDEL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTEMPSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT (description="Parameter Value", quantity="1")
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<i>Short1d</i>	SLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBITSTAT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCUP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUM9V (description="Parameter Value", quantity="1")

<i>Int1d</i>	EVHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	CCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMECONF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMESTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHT2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHTRTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVAPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SHUNTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EMCFILTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	OPTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BAFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCALTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTTCBLOCK (description="Parameter Value", quantity="1")

<i>Int1d</i>	LOSTVBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTHKBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTSDBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTNTBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_HP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_LP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT10STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT12STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT14STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT15STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMINTEGRITY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTPROG (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTDATA (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPROM2RAMCOPY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBOOTMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSELECTTAB (description="Parameter Value", quantity="1")
<i>Int1d</i>	CREC_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PTC_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGLE_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTRPBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAFAILCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG1OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG2OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	TABLE7_09_LWORD (description="Parameter Value", quantity="1")
<i>Long1d</i>	PTC_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	SCAL_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	TABLE7_12 (description="Parameter Value", quantity="1")
<i>Short1d</i>	HK_MON_STATUS (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGG_DCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_10 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_12 (description="Parameter Value", quantity="1")

<i>Int1d</i>	HK_13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_14 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_15 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_16 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_17 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_18 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_19 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_20 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_21 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_22 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_23 (description="Parameter Value", quantity="1")
<i>Long1d</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>Long1d</i>	packetTime (description="TM packet time", quantity="1")
<i>Int1d</i>	seqCount (description="Sequence count", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="CHK", description="Critical HK Parameter Report")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="SPECOFF", description="Spectrometer Offsets")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.42. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product (type="RST", description="Raw SPIRE Timeline")</i>	
<i>Metada- ta</i>	
StringParame- ter	telescope (description="Name of telescope")
StringParame- ter	instrument (description="Instrument attached to this product")
StringParame- ter	subsystem (description="Instrument Subsystem")
StringParame- ter	creator (description="Generator of this product")
StringParame- ter	object (description="Target name")
StringParame- ter	observer (description="Observer name")
StringParame- ter	proposal (description="Proposal name")
LongParame- ter	obsid (description="Observation identifier")

LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")

DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="km s-1")
<i>Columns</i>	
<i>table dataset</i>	(name="NHK", description="Nominal HK Parameter Report")
<i>Metadata</i>	
<i>Columns</i>	
<i>ShortId</i>	NHK_VERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_TYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_DFHFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_APID (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SEGFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SSC (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTLEN (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PUSVERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTTYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTSTYPE (description="Parameter Value", quantity="1")
<i>LongId</i>	NHK_PKTCTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTFTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	BBFULLTYPE (description="Parameter Value", quantity="1")
<i>IntId</i>	MODE (description="Parameter Value", quantity="1")
<i>IntId</i>	STEP (description="Parameter Value", quantity="1")
<i>LongId</i>	THSK (description="Parameter Value", quantity="1")

<i>LongId</i>	TRESET (description="Parameter Value", quantity="1")
<i>IntId</i>	TCRECV (description="Parameter Value", quantity="1")
<i>IntId</i>	TCRECN (description="Parameter Value", quantity="1")
<i>IntId</i>	TCEXEC (description="Parameter Value", quantity="1")
<i>IntId</i>	TCEXEN (description="Parameter Value", quantity="1")
<i>IntId</i>	TM1N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM2N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM3N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM4N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM5N (description="Parameter Value", quantity="1")
<i>IntId</i>	DCUFRAMECNT (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUFRAMECNT (description="Parameter Value", quantity="1")
<i>IntId</i>	SCUFRAMECNT (description="Parameter Value", quantity="1")
<i>LongId</i>	TSYNC (description="Parameter Value", quantity="1")
<i>LongId</i>	TDIFF (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT_1 (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT_2 (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT_3 (description="Parameter Value", quantity="1")
<i>IntId</i>	MONSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	DCULSIFSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	DCUHSIFMODE (description="Parameter Value", quantity="1")
<i>ShortId</i>	MCULSIFSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	MCUHSIFMODE (description="Parameter Value", quantity="1")
<i>ShortId</i>	SCULSIFSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	SCUHSIFMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	BBCOUNT (description="Parameter Value", quantity="1")
<i>IntId</i>	VMSTAT (description="Parameter Value", quantity="1")
<i>IntId</i>	VM1STAT (description="Parameter Value", quantity="1")
<i>IntId</i>	VM2STAT (description="Parameter Value", quantity="1")
<i>IntId</i>	VM3STAT (description="Parameter Value", quantity="1")
<i>IntId</i>	VMSTATAFX (description="Parameter Value", quantity="1")
<i>IntId</i>	SD_VALUE0 (description="Parameter Value", quantity="1")
<i>IntId</i>	SD_ADDRESS0 (description="Parameter Value", quantity="1")
<i>IntId</i>	SD_VALUE1 (description="Parameter Value", quantity="1")
<i>IntId</i>	SD_ADDRESS1 (description="Parameter Value", quantity="1")
<i>IntId</i>	SD_VALUE2 (description="Parameter Value", quantity="1")
<i>IntId</i>	SD_ADDRESS2 (description="Parameter Value", quantity="1")
<i>IntId</i>	SD_VALUE3 (description="Parameter Value", quantity="1")
<i>IntId</i>	SD_ADDRESS3 (description="Parameter Value", quantity="1")
<i>IntId</i>	DPUP5V (description="Parameter Value", quantity="1")
<i>IntId</i>	DPUP15V (description="Parameter Value", quantity="1")
<i>IntId</i>	DPUM15V (description="Parameter Value", quantity="1")

<i>Int1d</i>	DPUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CPULOAD (description="Parameter Value", quantity="1")
<i>Long1d</i>	LSLOAD (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAFRMS (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATASTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET5 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET6 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMLWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	TC_VDD_JFET (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET3V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET6V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET3V (description="Parameter Value", quantity="1")

<i>Int1d</i>	PMWJFET4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCJFETV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	OBSVER (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	TMMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	FIFO_DF_FLAG (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP9TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP8TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP7TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP6TEMP (description="Parameter Value", quantity="1")

<i>Int1d</i>	LIAP5TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	DAQTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIASSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP1STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP2STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP3STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP4STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP5STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP6STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP7STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP8STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP9STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS1STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS2STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS3STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUIFSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUIFCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSSDEL (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP14V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUM14V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUM15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUMACTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUBSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTLSW (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTMSW (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM10TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUFRAMESTART (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM12TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUFRAMES (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM14TSAMPLE (description="Parameter Value", quantity="1")

<i>Int1d</i>	MCUTM15TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTMSTATUS (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUBOOTSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUDLOADCONF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLOSTCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLATCHSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANSTART (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANEND (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANFSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTTHRESH (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORBEMF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTSSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECFLAG (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECLVDTSIGN (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECINIT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANDIR (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANCNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTPOSN (description="Parameter Value", quantity="1")

<i>Int1d</i>	SMECLVDTACSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTDCSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTRAJPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECPOSNDELTA (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCFINEPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMEANSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSKANPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG1AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG1OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG2AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG2OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG3AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG3OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPSENSPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSN2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPINTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFGAINDIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDIFFTC1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDIFFTC2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTIND (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGGCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNERR (description="Parameter Value", quantity="1")

<i>Int1d</i>	CHOPSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGSENSPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSN2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGINTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGFFGAINDIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDIFFTC1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDIFFTC2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTIND (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGCHOPCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM05 (description="Parameter Value", quantity="1")

<i>Int1d</i>	MCUPCKT12PARAM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM10 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM14 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSSDEL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTEMPSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBITSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	CCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMECONF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMESTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHT2_5V (description="Parameter Value", quantity="1")

<i>Int1d</i>	SCUCHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHRTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVAPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SHUNTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EMCFILTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	OPTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BAFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCALTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTTCBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTVBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTHKBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTSDBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTNTBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_HP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_LP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT10STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT12STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT14STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT15STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMINTEGRITY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTPROG (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTDATA (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPROM2RAMCOPY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBOOTMODE (description="Parameter Value", quantity="1")

<i>IntId</i>	SMECSELECTTAB (description="Parameter Value", quantity="1")
<i>IntId</i>	CREC_STEP (description="Parameter Value", quantity="1")
<i>IntId</i>	PTC_STAGE (description="Parameter Value", quantity="1")
<i>IntId</i>	SCAL_STAGE (description="Parameter Value", quantity="1")
<i>IntId</i>	JIGGLE_STEP (description="Parameter Value", quantity="1")
<i>IntId</i>	LOSTRPBLOCK (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAFAILCOUNT (description="Parameter Value", quantity="1")
<i>IntId</i>	SCANRES (description="Parameter Value", quantity="1")
<i>IntId</i>	VM_SMECSIG1OFF (description="Parameter Value", quantity="1")
<i>IntId</i>	VM_SMECSIG2OFF (description="Parameter Value", quantity="1")
<i>IntId</i>	TABLE7_09_LWORD (description="Parameter Value", quantity="1")
<i>LongId</i>	PTC_GET_COMMAND (description="Parameter Value", quantity="1")
<i>LongId</i>	SCAL_GET_COMMAND (description="Parameter Value", quantity="1")
<i>LongId</i>	TABLE7_12 (description="Parameter Value", quantity="1")
<i>ShortId</i>	HK_MON_STATUS (description="Parameter Value", quantity="1")
<i>IntId</i>	CHOPJIGG_DCOUPLE (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_02 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_03 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_04 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_05 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_06 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_07 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_08 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_09 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_10 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_11 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_12 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_13 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_14 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_15 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_16 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_17 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_18 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_19 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_20 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_21 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_22 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_23 (description="Parameter Value", quantity="1")
<i>LongId</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>LongId</i>	packetTime (description="TM packet time", quantity="1")
<i>IntId</i>	seqCount (description="Sequence count", quantity="1")
	()

<i>table dataset</i>	Dataset similar to the one above with (name="CHK", description="Critical HK Parameter Report")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="SPECF", description="Spectrometer Full Array (Nominal Science Report)")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="SMECSELECT", description="SMEC Selected Data (B Type Science Report)")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="BSMNOMINAL", description="BSM Block (Nominal Science Report)")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.43. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product (type="RST", description="Raw SPIRE Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")

StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")

StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="km s-1")
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table dataset	(name="NHK", description="Nominal HK Parameter Report")
Metadata	
Columns	
ShortId	NHK_VERS (description="Parameter Value", quantity="1")
ShortId	NHK_TYPE (description="Parameter Value", quantity="1")
ShortId	NHK_DFHFLAG (description="Parameter Value", quantity="1")
ShortId	NHK_APID (description="Parameter Value", quantity="1")
ShortId	NHK_SEGFLAG (description="Parameter Value", quantity="1")
ShortId	NHK_SSC (description="Parameter Value", quantity="1")
IntId	NHK_PKTLEN (description="Parameter Value", quantity="1")
ShortId	NHK_PUSVERS (description="Parameter Value", quantity="1")
ShortId	NHK_PKTTYPE (description="Parameter Value", quantity="1")
ShortId	NHK_PKTSTYPE (description="Parameter Value", quantity="1")
LongId	NHK_PKTCTIME (description="Parameter Value", quantity="1")
IntId	NHK_PKTFETIME (description="Parameter Value", quantity="1")
IntId	BBFULLTYPE (description="Parameter Value", quantity="1")
IntId	MODE (description="Parameter Value", quantity="1")
IntId	STEP (description="Parameter Value", quantity="1")
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IntId	TCEXEN (description="Parameter Value", quantity="1")
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IntId	TM2N (description="Parameter Value", quantity="1")
IntId	TM3N (description="Parameter Value", quantity="1")
IntId	TM4N (description="Parameter Value", quantity="1")
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IntId	DCUFRAMECNT (description="Parameter Value", quantity="1")
IntId	MCUFRAMECNT (description="Parameter Value", quantity="1")
IntId	SCUFRAMECNT (description="Parameter Value", quantity="1")
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LongId	TDIFF (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MEMSTAT_3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MONSTAT (description="Parameter Value", quantity="1")
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<i>Short1d</i>	DCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Short1d</i>	SCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SCUHSMODE (description="Parameter Value", quantity="1")
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<i>Int1d</i>	VM2STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM3STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VMSTATAFX (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE0 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SD_VALUE1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS1 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SD_ADDRESS2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS3 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	DPUP15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUM15V (description="Parameter Value", quantity="1")
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<i>Long1d</i>	LSLOAD (description="Parameter Value", quantity="1")
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<i>Int1d</i>	DCUDATAFRMS (description="Parameter Value", quantity="1")
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<i>Int1d</i>	PHOTBIASMODE (description="Parameter Value", quantity="1")
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<i>Int1d</i>	PMWBIAS (description="Parameter Value", quantity="1")
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<i>Short1d</i>	PSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET5 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET6 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMLWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	TC_VDD_JFET (description="Parameter Value", quantity="1")
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<i>Int1d</i>	PSWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET3V (description="Parameter Value", quantity="1")
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<i>Int1d</i>	PSWJFET6V (description="Parameter Value", quantity="1")
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<i>Int1d</i>	TCJFETV (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SPECJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET1 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SPECHTRV (description="Parameter Value", quantity="1")
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<i>Int1d</i>	TC2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC3TEMP (description="Parameter Value", quantity="1")
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<i>Int1d</i>	BIASM9V (description="Parameter Value", quantity="1")
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<i>Short1d</i>	OBSVER1 (description="Parameter Value", quantity="1")
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<i>Short1d</i>	OBSVER3 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	LIAP3TEMP (description="Parameter Value", quantity="1")
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<i>Int1d</i>	LIAS2TEMP (description="Parameter Value", quantity="1")
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<i>Int1d</i>	BIASTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	DAQTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIASSTAT (description="Parameter Value", quantity="1")
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<i>Short1d</i>	LIAP2STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP3STAT (description="Parameter Value", quantity="1")
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<i>ShortId</i>	LIAP6STAT (description="Parameter Value", quantity="1")
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<i>ShortId</i>	LIAS3STAT (description="Parameter Value", quantity="1")
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<i>IntId</i>	MCUP14V (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUM14V (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUP15V (description="Parameter Value", quantity="1")
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<i>IntId</i>	MCUSMECTEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUBSMTEMP (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUERR (description="Parameter Value", quantity="1")
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<i>IntId</i>	MCUSCHEDCNTMSW (description="Parameter Value", quantity="1")
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<i>IntId</i>	MCUTMSTATUS (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUBOOTSTAT (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUDLOADCONF (description="Parameter Value", quantity="1")
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<i>IntId</i>	SMECLOOPMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	SCANSTART (description="Parameter Value", quantity="1")
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<i>IntId</i>	SCANFSPEED (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTTHRESH (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECDFILT2 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRSPEED (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECMOTORRES (description="Parameter Value", quantity="1")
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<i>Short1d</i>	SMECSCANCNT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECENC SIG3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTAC SIG (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECENC FINEPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMEANSPEED (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOPBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL2 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOPSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORVOLT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKI (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGCHOPCOUPLE (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT10PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM10 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARAM14 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFSTAT (description="Parameter Value", quantity="1")

<i>Int1d</i>	SCUIFCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSSDEL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTEMPSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBITSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	CCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMECONF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMESTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHT2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHRTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVAPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SHUNTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EMCFILTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	OPTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BAFTEMP (description="Parameter Value", quantity="1")

<i>Int1d</i>	BSMIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCALTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTTCBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTEVBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTHKBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTSDBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTNTBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_HP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_LP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT10STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT12STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT14STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT15STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMINTEGRITY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTPROG (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTDATA (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPROM2RAMCOPY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBOOTMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSELECTTAB (description="Parameter Value", quantity="1")
<i>Int1d</i>	CREC_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PTC_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGLE_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTRPBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAFAILCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG1OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG2OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	TABLE7_09_LWORD (description="Parameter Value", quantity="1")
<i>Long1d</i>	PTC_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	SCAL_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	TABLE7_12 (description="Parameter Value", quantity="1")
<i>Short1d</i>	HK_MON_STATUS (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGG_DCOUPLE (description="Parameter Value", quantity="1")

<i>Int1d</i>	HK_02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_10 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_14 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_15 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_16 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_17 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_18 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_19 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_20 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_21 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_22 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_23 (description="Parameter Value", quantity="1")
<i>Long1d</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>Long1d</i>	packetTime (description="TM packet time", quantity="1")
<i>Int1d</i>	seqCount (description="Sequence count", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="CHK", description="Critical HK Parameter Report")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="SPECF", description="Spectrometer Full Array (Nominal Science Report)")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="SCUNOMINAL", description="SCU Block (Nominal Science Report)")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.44. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product</i> (type="RST", description="Raw SPIRE Timeline")	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")

StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")

StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="km s-1")
Columns	
table dataset	(name="CHK", description="Critical HK Parameter Report")
Metadata	
Columns	
Int1d	SID_C (description="Parameter Value", quantity="1")
Long1d	OBSID_C (description="Parameter Value", quantity="1")
Long1d	BBID_C (description="Parameter Value", quantity="1")
Int1d	MODE_C (description="Parameter Value", quantity="1")
Int1d	STEP_C (description="Parameter Value", quantity="1")
Int1d	TCRECV_C (description="Parameter Value", quantity="1")
Int1d	TCEXEC_C (description="Parameter Value", quantity="1")
Int1d	MEMSTAT1_C (description="Parameter Value", quantity="1")
Int1d	MEMSTAT2_C (description="Parameter Value", quantity="1")
Int1d	MEMSTAT3_C (description="Parameter Value", quantity="1")
Int1d	MONSTAT_C (description="Parameter Value", quantity="1")
Int1d	SCUDCDCSTAT_C (description="Parameter Value", quantity="1")
Int1d	MCUIFSTAT_C (description="Parameter Value", quantity="1")
Int1d	SCUIFSTAT_C (description="Parameter Value", quantity="1")
Int1d	PSWJFETSTAT_C (description="Parameter Value", quantity="1")
Short1d	PSW_VDD_JFET1_C (description="Parameter Value", quantity="1")
Short1d	PSW_VDD_JFET2_C (description="Parameter Value", quantity="1")
Short1d	PSW_VDD_JFET3_C (description="Parameter Value", quantity="1")
Short1d	PSW_VDD_JFET4_C (description="Parameter Value", quantity="1")
Short1d	PSW_VDD_JFET5_C (description="Parameter Value", quantity="1")
Short1d	PSW_VDD_JFET6_C (description="Parameter Value", quantity="1")
Int1d	PMLWJFETSTAT_C (description="Parameter Value", quantity="1")
Short1d	PMW_VDD_JFET1_C (description="Parameter Value", quantity="1")
Short1d	PMW_VDD_JFET2_C (description="Parameter Value", quantity="1")
Short1d	PMW_VDD_JFET3_C (description="Parameter Value", quantity="1")
Short1d	PMW_VDD_JFET4_C (description="Parameter Value", quantity="1")
Short1d	PLW_VDD_JFET1_C (description="Parameter Value", quantity="1")
Short1d	PLW_VDD_JFET2_C (description="Parameter Value", quantity="1")
Short1d	TC_VDD_JFET_C (description="Parameter Value", quantity="1")
Int1d	SPECJFETSTAT_C (description="Parameter Value", quantity="1")
Short1d	SLW_VDD_JFET1_C (description="Parameter Value", quantity="1")

<i>ShortId</i>	SSW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	SSW_VDD_JFET2_C (description="Parameter Value", quantity="1")
<i>IntId</i>	LIASSTAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP1STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP2STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP3STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP4STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP5STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP6STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP7STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP8STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP9STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAS1STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAS2STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAS3STAT_C (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUERR_C (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECSTAT_C (description="Parameter Value", quantity="1")
<i>IntId</i>	BSMSTAT_C (description="Parameter Value", quantity="1")
<i>IntId</i>	SCUSTAT_C (description="Parameter Value", quantity="1")
<i>IntId</i>	SUBKTEMP_C (description="Parameter Value", quantity="1")
<i>IntId</i>	OBSVER_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	OBSVER1_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	OBSVER2_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	OBSVER3_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_VERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_TYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_DFHFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_APID (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_SEGFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_SSC (description="Parameter Value", quantity="1")
<i>IntId</i>	CHK_PKTLEN (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_PUSVERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_PKTTYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_PKTSTYPE (description="Parameter Value", quantity="1")
<i>LongId</i>	CHK_PKTCTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	CHK_PKTFTIME (description="Parameter Value", quantity="1")
<i>LongId</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>LongId</i>	packetTime (description="TM packet time", quantity="1")
<i>IntId</i>	seqCount (description="Sequence count", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="NHK", description="Nominal HK Parameter Report")

	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.45. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product (type="RST", description="Raw SPIRE Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")

DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="km s-1")
<i>Columns</i>	
<i>table dataset</i>	(name="CHK", description="Critical HK Parameter Report")
<i>Metadata</i>	
<i>Columns</i>	
<i>Int1d</i>	SID_C (description="Parameter Value", quantity="1")
<i>Long1d</i>	OBSID_C (description="Parameter Value", quantity="1")
<i>Long1d</i>	BBID_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MODE_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	STEP_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCRECV_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCEXEC_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT1_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT2_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT3_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MONSTAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUIFSTAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFSTAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFETSTAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET2_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET3_C (description="Parameter Value", quantity="1")

<i>ShortId</i>	PSW_VDD_JFET4_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	PSW_VDD_JFET5_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	PSW_VDD_JFET6_C (description="Parameter Value", quantity="1")
<i>IntId</i>	PMLWJFETSTAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	PMW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	PMW_VDD_JFET2_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	PMW_VDD_JFET3_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	PMW_VDD_JFET4_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	PLW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	PLW_VDD_JFET2_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	TC_VDD_JFET_C (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECJFETSTAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	SLW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	SSW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	SSW_VDD_JFET2_C (description="Parameter Value", quantity="1")
<i>IntId</i>	LIASSTAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP1STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP2STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP3STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP4STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP5STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP6STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP7STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP8STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP9STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAS1STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAS2STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAS3STAT_C (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUERR_C (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECSTAT_C (description="Parameter Value", quantity="1")
<i>IntId</i>	BSMSTAT_C (description="Parameter Value", quantity="1")
<i>IntId</i>	SCUSTAT_C (description="Parameter Value", quantity="1")
<i>IntId</i>	SUBKTEMP_C (description="Parameter Value", quantity="1")
<i>IntId</i>	OBSVER_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	OBSVER1_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	OBSVER2_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	OBSVER3_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_VERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_TYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_DFHLFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_APID (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_SEGFLAG (description="Parameter Value", quantity="1")

<i>ShortId</i>	CHK_SSC (description="Parameter Value", quantity="1")
<i>IntId</i>	CHK_PKTLEN (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_PUSVERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_PKTTYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_PKTSTYPE (description="Parameter Value", quantity="1")
<i>LongId</i>	CHK_PKTCTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	CHK_PKTFTIME (description="Parameter Value", quantity="1")
<i>LongId</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>LongId</i>	packetTime (description="TM packet time", quantity="1")
<i>IntId</i>	seqCount (description="Sequence count", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="NHK", description="Nominal HK Parameter Report")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="SPECOFF", description="Spectrometer Offsets")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.46. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product (type="RST", description="Raw SPIRE Timeline")</i>	
<i>Metada- ta</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")

DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")

DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="km s-1")
<i>Columns</i>	
<i>table dataset</i>	(name="CHK", description="Critical HK Parameter Report")
<i>Metadata</i>	
<i>Columns</i>	
<i>IntId</i>	SID_C (description="Parameter Value", quantity="1")
<i>LongId</i>	OBSID_C (description="Parameter Value", quantity="1")
<i>LongId</i>	BBID_C (description="Parameter Value", quantity="1")
<i>IntId</i>	MODE_C (description="Parameter Value", quantity="1")
<i>IntId</i>	STEP_C (description="Parameter Value", quantity="1")
<i>IntId</i>	TCRECV_C (description="Parameter Value", quantity="1")
<i>IntId</i>	TCEXEC_C (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT1_C (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT2_C (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT3_C (description="Parameter Value", quantity="1")
<i>IntId</i>	MONSTAT_C (description="Parameter Value", quantity="1")
<i>IntId</i>	SCUDCDCSTAT_C (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUIFSTAT_C (description="Parameter Value", quantity="1")
<i>IntId</i>	SCUIFSTAT_C (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFETSTAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	PSW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	PSW_VDD_JFET2_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	PSW_VDD_JFET3_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	PSW_VDD_JFET4_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	PSW_VDD_JFET5_C (description="Parameter Value", quantity="1")

<i>ShortId</i>	PSW_VDD_JFET6_C (description="Parameter Value", quantity="1")
<i>IntId</i>	PMLWJFETSTAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	PMW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	PMW_VDD_JFET2_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	PMW_VDD_JFET3_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	PMW_VDD_JFET4_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	PLW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	PLW_VDD_JFET2_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	TC_VDD_JFET_C (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECJFETSTAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	SLW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	SSW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	SSW_VDD_JFET2_C (description="Parameter Value", quantity="1")
<i>IntId</i>	LIASSTAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP1STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP2STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP3STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP4STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP5STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP6STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP7STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP8STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP9STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAS1STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAS2STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAS3STAT_C (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUERR_C (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECSTAT_C (description="Parameter Value", quantity="1")
<i>IntId</i>	BSMSTAT_C (description="Parameter Value", quantity="1")
<i>IntId</i>	SCUSTAT_C (description="Parameter Value", quantity="1")
<i>IntId</i>	SUBKTEMP_C (description="Parameter Value", quantity="1")
<i>IntId</i>	OBSVER_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	OBSVER1_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	OBSVER2_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	OBSVER3_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_VERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_TYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_DFHFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_APID (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_SEGFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_SSC (description="Parameter Value", quantity="1")
<i>IntId</i>	CHK_PKTLEN (description="Parameter Value", quantity="1")

<i>ShortId</i>	CHK_PUSVERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_PKTTYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_PKTSTYPE (description="Parameter Value", quantity="1")
<i>LongId</i>	CHK_PKTCTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	CHK_PKTFTIME (description="Parameter Value", quantity="1")
<i>LongId</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>LongId</i>	packetTime (description="TM packet time", quantity="1")
<i>IntId</i>	seqCount (description="Sequence count", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="NHK", description="Nominal HK Parameter Report")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="SPECF", description="Spectrometer Full Array (Nominal Science Report)")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="SMECSELECT", description="SMEC Selected Data (B Type Science Report)")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="BSMNOMINAL", description="BSM Block (Nominal Science Report)")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.47. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product (type="RST", description="Raw SPIRE Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")

StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="km s-1")
<i>Columns</i>	
<i>table dataset</i>	(name="NHK", description="Nominal HK Parameter Report")
<i>Metadata</i>	

<i>Columns</i>	
<i>ShortId</i>	NHK_VERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_TYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_DFHFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_APID (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SEGFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SSC (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTLEN (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PUSVERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTTYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTSTYPE (description="Parameter Value", quantity="1")
<i>LongId</i>	NHK_PKTCTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTFTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	BBFULLTYPE (description="Parameter Value", quantity="1")
<i>IntId</i>	MODE (description="Parameter Value", quantity="1")
<i>IntId</i>	STEP (description="Parameter Value", quantity="1")
<i>LongId</i>	THSK (description="Parameter Value", quantity="1")
<i>LongId</i>	TRESET (description="Parameter Value", quantity="1")
<i>IntId</i>	TCRECV (description="Parameter Value", quantity="1")
<i>IntId</i>	TCRECN (description="Parameter Value", quantity="1")
<i>IntId</i>	TCEXEC (description="Parameter Value", quantity="1")
<i>IntId</i>	TCEXEN (description="Parameter Value", quantity="1")
<i>IntId</i>	TM1N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM2N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM3N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM4N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM5N (description="Parameter Value", quantity="1")
<i>IntId</i>	DCUFRAMECNT (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUFRAMECNT (description="Parameter Value", quantity="1")
<i>IntId</i>	SCUFRAMECNT (description="Parameter Value", quantity="1")
<i>LongId</i>	TSYNC (description="Parameter Value", quantity="1")
<i>LongId</i>	TDIFF (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT_1 (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT_2 (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT_3 (description="Parameter Value", quantity="1")
<i>IntId</i>	MONSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	DCULSIFSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	DCUHSIFMODE (description="Parameter Value", quantity="1")
<i>ShortId</i>	MCULSIFSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	MCUHSIFMODE (description="Parameter Value", quantity="1")
<i>ShortId</i>	SCULSIFSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	SCUHSIFMODE (description="Parameter Value", quantity="1")

<i>Int1d</i>	BBCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VMSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM1STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM2STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM3STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VMSTATAFX (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE0 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS0 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUM15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CPULOAD (description="Parameter Value", quantity="1")
<i>Long1d</i>	LSLOAD (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAFRMS (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATASTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET5 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET6 (description="Parameter Value", quantity="1")

<i>Int1d</i>	PMLWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	TC_VDD_JFET (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET3V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET6V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET3V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCJFETV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASP9V (description="Parameter Value", quantity="1")

<i>Int1d</i>	BIASM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	OBSVER (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	TMMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	FIFO_DF_FLAG (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP9TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP8TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP7TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP6TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP5TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	DAQTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIASSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP1STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP2STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP3STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP4STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP5STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP6STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP7STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP8STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP9STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS1STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS2STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS3STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUIFSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUIFCTRL (description="Parameter Value", quantity="1")

<i>Int1d</i>	MCUSSDEL (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP14V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUM14V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUM15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUMACTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUBSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTLSW (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTMSW (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM10TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUFRAMESTART (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM12TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUFRAMES (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM14TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM15TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTMSTATUS (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUBOOTSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUDLOADCONF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLOSTCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCPCR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLATCHSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANSTART (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANEND (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANFSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTTHRESH (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRSPEED (description="Parameter Value", quantity="1")

<i>Int1d</i>	SMECBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORBEMF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECFLAG (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECLVDTSIGN (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECINIT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANDIR (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANCNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTACSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTDCSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTRAJPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECPOSNDELTA (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCFINEPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMEANSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSKANPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG1AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG1OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG2AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG2OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG3AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG3OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPSENSPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSN2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKI (description="Parameter Value", quantity="1")

<i>Int1d</i>	CHOPINTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFGAINDIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDIFFTC1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDIFFTC2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTIND (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGGCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGSENSPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSN2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGINTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGFFGAINDIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDIFFTC1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDIFFTC2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTIND (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL1 (description="Parameter Value", quantity="1")

<i>Int1d</i>	JIGGBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGCHOPCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM10 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM14 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSSDEL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTEMPSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBITSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP5V (description="Parameter Value", quantity="1")

<i>Int1d</i>	SCUP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	CCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMECONF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMESTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHT2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHRTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVAPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SHUNTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EMCFILTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	OPTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BAFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCALTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTREF (description="Parameter Value", quantity="1")

<i>Int1d</i>	SCUTHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTTCBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTVBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTHKBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTSDBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTNTBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_HP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_LP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT10STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT12STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT14STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT15STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMINTEGRITY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTPROG (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTDATA (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPROM2RAMCOPY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBOOTMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSELECTTAB (description="Parameter Value", quantity="1")
<i>Int1d</i>	CREC_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PTC_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGLE_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTRPBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAFAILCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG1OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG2OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	TABLE7_09_LWORD (description="Parameter Value", quantity="1")
<i>Long1d</i>	PTC_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	SCAL_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	TABLE7_12 (description="Parameter Value", quantity="1")
<i>Short1d</i>	HK_MON_STATUS (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGG_DCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_10 (description="Parameter Value", quantity="1")

<i>Int1d</i>	HK_11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_14 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_15 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_16 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_17 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_18 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_19 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_20 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_21 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_22 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_23 (description="Parameter Value", quantity="1")
<i>Long1d</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>Long1d</i>	packetTime (description="TM packet time", quantity="1")
<i>Int1d</i>	seqCount (description="Sequence count", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="CHK", description="Critical HK Parameter Report")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="SPECF", description="Spectrometer Full Array (Nominal Science Report)")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.48. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product (type="RST", description="Raw SPIRE Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")

LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")

DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="km s-1")
Columns	
table dataset	(name="CHK", description="Critical HK Parameter Report")
Metadata	
Columns	
Int1d	SID_C (description="Parameter Value", quantity="1")
Long1d	OBSID_C (description="Parameter Value", quantity="1")
Long1d	BBID_C (description="Parameter Value", quantity="1")
Int1d	MODE_C (description="Parameter Value", quantity="1")
Int1d	STEP_C (description="Parameter Value", quantity="1")
Int1d	TCRECV_C (description="Parameter Value", quantity="1")
Int1d	TCEXEC_C (description="Parameter Value", quantity="1")
Int1d	MEMSTAT1_C (description="Parameter Value", quantity="1")
Int1d	MEMSTAT2_C (description="Parameter Value", quantity="1")
Int1d	MEMSTAT3_C (description="Parameter Value", quantity="1")
Int1d	MONSTAT_C (description="Parameter Value", quantity="1")
Int1d	SCUDCDCSTAT_C (description="Parameter Value", quantity="1")
Int1d	MCUIFSTAT_C (description="Parameter Value", quantity="1")
Int1d	SCUIFSTAT_C (description="Parameter Value", quantity="1")
Int1d	PSWJFETSTAT_C (description="Parameter Value", quantity="1")
Short1d	PSW_VDD_JFET1_C (description="Parameter Value", quantity="1")
Short1d	PSW_VDD_JFET2_C (description="Parameter Value", quantity="1")
Short1d	PSW_VDD_JFET3_C (description="Parameter Value", quantity="1")
Short1d	PSW_VDD_JFET4_C (description="Parameter Value", quantity="1")
Short1d	PSW_VDD_JFET5_C (description="Parameter Value", quantity="1")

<i>ShortId</i>	PSW_VDD_JFET6_C (description="Parameter Value", quantity="1")
<i>IntId</i>	PMLWJFETSTAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	PMW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	PMW_VDD_JFET2_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	PMW_VDD_JFET3_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	PMW_VDD_JFET4_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	PLW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	PLW_VDD_JFET2_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	TC_VDD_JFET_C (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECJFETSTAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	SLW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	SSW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	SSW_VDD_JFET2_C (description="Parameter Value", quantity="1")
<i>IntId</i>	LIASSTAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP1STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP2STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP3STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP4STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP5STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP6STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP7STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP8STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAP9STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAS1STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAS2STAT_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	LIAS3STAT_C (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUERR_C (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECSTAT_C (description="Parameter Value", quantity="1")
<i>IntId</i>	BSMSTAT_C (description="Parameter Value", quantity="1")
<i>IntId</i>	SCUSTAT_C (description="Parameter Value", quantity="1")
<i>IntId</i>	SUBKTEMP_C (description="Parameter Value", quantity="1")
<i>IntId</i>	OBSVER_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	OBSVER1_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	OBSVER2_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	OBSVER3_C (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_VERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_TYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_DFHFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_APID (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_SEGFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_SSC (description="Parameter Value", quantity="1")
<i>IntId</i>	CHK_PKTLEN (description="Parameter Value", quantity="1")

<i>ShortId</i>	CHK_PUSVERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_PKTTYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_PKTSTYPE (description="Parameter Value", quantity="1")
<i>LongId</i>	CHK_PKTCTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	CHK_PKTFTIME (description="Parameter Value", quantity="1")
<i>LongId</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>LongId</i>	packetTime (description="TM packet time", quantity="1")
<i>IntId</i>	seqCount (description="Sequence count", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="NHK", description="Nominal HK Parameter Report")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="SPECF", description="Spectrometer Full Array (Nominal Science Report)")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="SCUNOMINAL", description="SCU Block (Nominal Science Report)")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.49. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product (type="RST", description="Raw SPIRE Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")

StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="km s-1")
<i>Columns</i>	
<i>table dataset</i>	(name="NHK", description="Nominal HK Parameter Report")
<i>Metadata</i>	
<i>Columns</i>	
<i>ShortId</i>	NHK_VERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_TYPE (description="Parameter Value", quantity="1")

<i>ShortId</i>	NHK_DFHLFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_APIID (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SEGFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SSC (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTLEN (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PUSVERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTTYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTSTYPE (description="Parameter Value", quantity="1")
<i>LongId</i>	NHK_PKTCTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTFTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	BBFULLTYPE (description="Parameter Value", quantity="1")
<i>IntId</i>	MODE (description="Parameter Value", quantity="1")
<i>IntId</i>	STEP (description="Parameter Value", quantity="1")
<i>LongId</i>	THSK (description="Parameter Value", quantity="1")
<i>LongId</i>	TRESET (description="Parameter Value", quantity="1")
<i>IntId</i>	TCRECV (description="Parameter Value", quantity="1")
<i>IntId</i>	TCRECN (description="Parameter Value", quantity="1")
<i>IntId</i>	TCEXEC (description="Parameter Value", quantity="1")
<i>IntId</i>	TCEXEN (description="Parameter Value", quantity="1")
<i>IntId</i>	TM1N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM2N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM3N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM4N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM5N (description="Parameter Value", quantity="1")
<i>IntId</i>	DCUFRAMECNT (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUFRAMECNT (description="Parameter Value", quantity="1")
<i>IntId</i>	SCUFRAMECNT (description="Parameter Value", quantity="1")
<i>LongId</i>	TSYNC (description="Parameter Value", quantity="1")
<i>LongId</i>	TDIFF (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT_1 (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT_2 (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT_3 (description="Parameter Value", quantity="1")
<i>IntId</i>	MONSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	DCULSIFSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	DCUHSIFMODE (description="Parameter Value", quantity="1")
<i>ShortId</i>	MCULSIFSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	MCUHSIFMODE (description="Parameter Value", quantity="1")
<i>ShortId</i>	SCULSIFSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	SCUHSIFMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	BBCOUNT (description="Parameter Value", quantity="1")
<i>IntId</i>	VMSTAT (description="Parameter Value", quantity="1")
<i>IntId</i>	VM1STAT (description="Parameter Value", quantity="1")

<i>Int1d</i>	VM2STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM3STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VMSTATAFX (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE0 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS0 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUM15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CPULOAD (description="Parameter Value", quantity="1")
<i>Long1d</i>	LSLOAD (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAFRMS (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATASTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET5 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET6 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMLWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET2 (description="Parameter Value", quantity="1")

<i>ShortId</i>	PMW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>ShortId</i>	PMW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>ShortId</i>	PLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>ShortId</i>	PLW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>ShortId</i>	TC_VDD_JFET (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET1V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET2V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET3V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET4V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET5V (description="Parameter Value", quantity="1")
<i>IntId</i>	PSWJFET6V (description="Parameter Value", quantity="1")
<i>IntId</i>	PMWJFET1V (description="Parameter Value", quantity="1")
<i>IntId</i>	PMWJFET2V (description="Parameter Value", quantity="1")
<i>IntId</i>	PMWJFET3V (description="Parameter Value", quantity="1")
<i>IntId</i>	PMWJFET4V (description="Parameter Value", quantity="1")
<i>IntId</i>	PLWJFET1V (description="Parameter Value", quantity="1")
<i>IntId</i>	PLWJFET2V (description="Parameter Value", quantity="1")
<i>IntId</i>	PHOTHTRV (description="Parameter Value", quantity="1")
<i>IntId</i>	TCJFETV (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECBIASDIV (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECBIASMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECMCLKDIV (description="Parameter Value", quantity="1")
<i>IntId</i>	SSWBIAS (description="Parameter Value", quantity="1")
<i>IntId</i>	SLWBIAS (description="Parameter Value", quantity="1")
<i>IntId</i>	SSWPHASE (description="Parameter Value", quantity="1")
<i>IntId</i>	SLWPHASE (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECJFETSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	SLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>ShortId</i>	SSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>ShortId</i>	SSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>IntId</i>	SSWJFET1V (description="Parameter Value", quantity="1")
<i>IntId</i>	SSWJFET2V (description="Parameter Value", quantity="1")
<i>IntId</i>	SLWJFET1V (description="Parameter Value", quantity="1")
<i>IntId</i>	SPECHTRV (description="Parameter Value", quantity="1")
<i>IntId</i>	TC1TEMP (description="Parameter Value", quantity="1")
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<i>IntId</i>	BIASP9V (description="Parameter Value", quantity="1")
<i>IntId</i>	BIASM9V (description="Parameter Value", quantity="1")
<i>IntId</i>	OBSVER (description="Parameter Value", quantity="1")
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<i>ShortId</i>	OBSVER2 (description="Parameter Value", quantity="1")
<i>ShortId</i>	OBSVER3 (description="Parameter Value", quantity="1")
<i>IntId</i>	TMMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	FIFO_DF_FLAG (description="Parameter Value", quantity="1")
<i>IntId</i>	PLIAP5V (description="Parameter Value", quantity="1")
<i>IntId</i>	PLIAP9V (description="Parameter Value", quantity="1")
<i>IntId</i>	PLIAM9V (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUSCHEDCNTMSW (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCANS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANMODE (description="Parameter Value", quantity="1")
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<i>Short1d</i>	SMECINIT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	BSMMODE (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOPKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPINTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPINTLIMIT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOPFFGAINDIFF (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOPDIFFTC2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTIND (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOPBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGGCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMSTAT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOPSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDACVAL (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKI (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGFFGAINDIFF (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGCHOPCOUPLE (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT10PARM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM02 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT12PARM02 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT14PARM01 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCUSSDEL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTEMPSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT (description="Parameter Value", quantity="1")
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<i>Short1d</i>	SLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBITSTAT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCUP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVHSV (description="Parameter Value", quantity="1")

<i>Int1d</i>	SPHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHTRV (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCUFRAMES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMESTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALV (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCAL4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHT2_5V (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCUCHTGND (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCAL4CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHRTEMP (description="Parameter Value", quantity="1")
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<i>Int1d</i>	EVAPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SHUNTTEMP (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SL0TEMP (description="Parameter Value", quantity="1")
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<i>Int1d</i>	OPTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BAFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMIFTEMP (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCALTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTGND (description="Parameter Value", quantity="1")
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<i>Int1d</i>	LOSTEVBLOCK (description="Parameter Value", quantity="1")

<i>Int1d</i>	LOSTHKBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTSDBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTNTBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_HP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_LP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT10STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT12STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT14STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT15STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMINTEGRITY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTPROG (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTDATA (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPROM2RAMCOPY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBOOTMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSELECTTAB (description="Parameter Value", quantity="1")
<i>Int1d</i>	CREC_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PTC_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGLE_STEP (description="Parameter Value", quantity="1")
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<i>Int1d</i>	LIAFAILCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRES (description="Parameter Value", quantity="1")
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<i>Int1d</i>	VM_SMECSIG2OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	TABLE7_09_LWORD (description="Parameter Value", quantity="1")
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<i>Long1d</i>	SCAL_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	TABLE7_12 (description="Parameter Value", quantity="1")
<i>Short1d</i>	HK_MON_STATUS (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGG_DCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_10 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_13 (description="Parameter Value", quantity="1")

<i>Int1d</i>	HK_14 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_15 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_16 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_17 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_18 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_19 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_20 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_21 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_22 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_23 (description="Parameter Value", quantity="1")
<i>Long1d</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>Long1d</i>	packetTime (description="TM packet time", quantity="1")
<i>Int1d</i>	seqCount (description="Sequence count", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="CHK", description="Critical HK Parameter Report")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="SPECF", description="Spectrometer Full Array (Nominal Science Report)")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.50. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product (type="RST", description="Raw SPIRE Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")

StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="km s-1")
<i>Columns</i>	
<i>table dataset</i>	(name="NHK", description="Nominal HK Parameter Report")
<i>Metadata</i>	

<i>Columns</i>	
<i>ShortId</i>	NHK_VERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_TYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_DFHFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_APID (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SEGFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SSC (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTLEN (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PUSVERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTTYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTSTYPE (description="Parameter Value", quantity="1")
<i>LongId</i>	NHK_PKTCTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTFTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	BBFULLTYPE (description="Parameter Value", quantity="1")
<i>IntId</i>	MODE (description="Parameter Value", quantity="1")
<i>IntId</i>	STEP (description="Parameter Value", quantity="1")
<i>LongId</i>	THSK (description="Parameter Value", quantity="1")
<i>LongId</i>	TRESET (description="Parameter Value", quantity="1")
<i>IntId</i>	TCRECV (description="Parameter Value", quantity="1")
<i>IntId</i>	TCRECN (description="Parameter Value", quantity="1")
<i>IntId</i>	TCEXEC (description="Parameter Value", quantity="1")
<i>IntId</i>	TCEXEN (description="Parameter Value", quantity="1")
<i>IntId</i>	TM1N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM2N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM3N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM4N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM5N (description="Parameter Value", quantity="1")
<i>IntId</i>	DCUFRAMECNT (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUFRAMECNT (description="Parameter Value", quantity="1")
<i>IntId</i>	SCUFRAMECNT (description="Parameter Value", quantity="1")
<i>LongId</i>	TSYNC (description="Parameter Value", quantity="1")
<i>LongId</i>	TDIFF (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT_1 (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT_2 (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT_3 (description="Parameter Value", quantity="1")
<i>IntId</i>	MONSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	DCULSIFSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	DCUHSIFMODE (description="Parameter Value", quantity="1")
<i>ShortId</i>	MCULSIFSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	MCUHSIFMODE (description="Parameter Value", quantity="1")
<i>ShortId</i>	SCULSIFSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	SCUHSIFMODE (description="Parameter Value", quantity="1")

<i>Int1d</i>	BBCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VMSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM1STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM2STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM3STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VMSTATAFX (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE0 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS0 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUM15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CPULOAD (description="Parameter Value", quantity="1")
<i>Long1d</i>	LSLOAD (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAFRMS (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATASTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET5 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET6 (description="Parameter Value", quantity="1")

<i>Int1d</i>	PMLWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	TC_VDD_JFET (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET3V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET6V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET3V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCJFETV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASP9V (description="Parameter Value", quantity="1")

<i>Int1d</i>	BIASM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	OBSVER (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	TMMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	FIFO_DF_FLAG (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP9TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP8TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP7TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP6TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP5TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	DAQTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIASSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP1STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP2STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP3STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP4STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP5STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP6STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP7STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP8STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP9STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS1STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS2STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS3STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUIFSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUIFCTRL (description="Parameter Value", quantity="1")

<i>Int1d</i>	MCUSSDEL (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP14V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUM14V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUM15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUMACTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUBSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTLSW (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTMSW (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM10TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUFRAMESTART (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM12TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUFRAMES (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM14TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM15TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTMSTATUS (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUBOOTSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUDLOADCONF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLOSTCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCPCR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLATCHSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANSTART (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANEND (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANFSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTTHRESH (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRSPEED (description="Parameter Value", quantity="1")

<i>Int1d</i>	SMECBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORBEMF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECFLAG (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECLVDTSIGN (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECINIT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANDIR (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANCNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTACSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTDCSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTRAJPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECPOSNDELTA (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCFINEPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMEANSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSKANPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG1AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG1OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG2AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG2OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG3AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG3OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPSENSPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSN2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKI (description="Parameter Value", quantity="1")

<i>Int1d</i>	CHOPINTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFGAINDIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDIFFTC1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDIFFTC2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTIND (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGGCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGSENSPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSN2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGINTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGFFGAINDIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDIFFTC1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDIFFTC2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTIND (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL1 (description="Parameter Value", quantity="1")

<i>Int1d</i>	JIGGBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGCHOPCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM10 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM14 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSSDEL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTEMPSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBITSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP5V (description="Parameter Value", quantity="1")

<i>Int1d</i>	SCUP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	CCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMECONF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMESTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHT2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHRTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVAPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SHUNTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EMCFILTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	OPTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BAFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCALTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTREF (description="Parameter Value", quantity="1")

<i>Int1d</i>	SCUTHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTTCBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTVBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTHKBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTSDBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTNTBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_HP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_LP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT10STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT12STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT14STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT15STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMINTEGRITY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTPROG (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTDATA (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPROM2RAMCOPY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBOOTMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSELECTTAB (description="Parameter Value", quantity="1")
<i>Int1d</i>	CREC_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PTC_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGLE_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTRPBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAFAILCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG1OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG2OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	TABLE7_09_LWORD (description="Parameter Value", quantity="1")
<i>Long1d</i>	PTC_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	SCAL_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	TABLE7_12 (description="Parameter Value", quantity="1")
<i>Short1d</i>	HK_MON_STATUS (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGG_DCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_10 (description="Parameter Value", quantity="1")

<i>Int1d</i>	HK_11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_14 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_15 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_16 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_17 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_18 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_19 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_20 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_21 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_22 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_23 (description="Parameter Value", quantity="1")
<i>Long1d</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>Long1d</i>	packetTime (description="TM packet time", quantity="1")
<i>Int1d</i>	seqCount (description="Sequence count", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="CHK", description="Critical HK Parameter Report")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="SPECOFF", description="Spectrometer Offsets")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.51. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product (type="RST", description="Raw SPIRE Timeline")</i>	
<i>Metada- ta</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")

LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")

DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="km s-1")
<i>Columns</i>	
<i>table dataset</i>	(name="NHK", description="Nominal HK Parameter Report")
<i>Metadata</i>	
<i>Columns</i>	
<i>ShortId</i>	NHK_VERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_TYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_DFHFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_APID (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SEGFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SSC (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTLEN (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PUSVERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTTYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTSTYPE (description="Parameter Value", quantity="1")
<i>LongId</i>	NHK_PKTCTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTFTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	BBFULLTYPE (description="Parameter Value", quantity="1")
<i>IntId</i>	MODE (description="Parameter Value", quantity="1")
<i>IntId</i>	STEP (description="Parameter Value", quantity="1")

<i>LongId</i>	THSK (description="Parameter Value", quantity="1")
<i>LongId</i>	TRESET (description="Parameter Value", quantity="1")
<i>IntId</i>	TCRECV (description="Parameter Value", quantity="1")
<i>IntId</i>	TCRECN (description="Parameter Value", quantity="1")
<i>IntId</i>	TCEXEC (description="Parameter Value", quantity="1")
<i>IntId</i>	TCEXEN (description="Parameter Value", quantity="1")
<i>IntId</i>	TM1N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM2N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM3N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM4N (description="Parameter Value", quantity="1")
<i>IntId</i>	TM5N (description="Parameter Value", quantity="1")
<i>IntId</i>	DCUFRAMECNT (description="Parameter Value", quantity="1")
<i>IntId</i>	MCUFRAMECNT (description="Parameter Value", quantity="1")
<i>IntId</i>	SCUFRAMECNT (description="Parameter Value", quantity="1")
<i>LongId</i>	TSYNC (description="Parameter Value", quantity="1")
<i>LongId</i>	TDIFF (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT_1 (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT_2 (description="Parameter Value", quantity="1")
<i>IntId</i>	MEMSTAT_3 (description="Parameter Value", quantity="1")
<i>IntId</i>	MONSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	DCULSIFSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	DCUHSIFMODE (description="Parameter Value", quantity="1")
<i>ShortId</i>	MCULSIFSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	MCUHSIFMODE (description="Parameter Value", quantity="1")
<i>ShortId</i>	SCULSIFSTAT (description="Parameter Value", quantity="1")
<i>ShortId</i>	SCUHSIFMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	BBCOUNT (description="Parameter Value", quantity="1")
<i>IntId</i>	VMSTAT (description="Parameter Value", quantity="1")
<i>IntId</i>	VM1STAT (description="Parameter Value", quantity="1")
<i>IntId</i>	VM2STAT (description="Parameter Value", quantity="1")
<i>IntId</i>	VM3STAT (description="Parameter Value", quantity="1")
<i>IntId</i>	VMSTATAFX (description="Parameter Value", quantity="1")
<i>IntId</i>	SD_VALUE0 (description="Parameter Value", quantity="1")
<i>IntId</i>	SD_ADDRESS0 (description="Parameter Value", quantity="1")
<i>IntId</i>	SD_VALUE1 (description="Parameter Value", quantity="1")
<i>IntId</i>	SD_ADDRESS1 (description="Parameter Value", quantity="1")
<i>IntId</i>	SD_VALUE2 (description="Parameter Value", quantity="1")
<i>IntId</i>	SD_ADDRESS2 (description="Parameter Value", quantity="1")
<i>IntId</i>	SD_VALUE3 (description="Parameter Value", quantity="1")
<i>IntId</i>	SD_ADDRESS3 (description="Parameter Value", quantity="1")
<i>IntId</i>	DPUP5V (description="Parameter Value", quantity="1")
<i>IntId</i>	DPUP15V (description="Parameter Value", quantity="1")

<i>Int1d</i>	DPUM15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CPULOAD (description="Parameter Value", quantity="1")
<i>Long1d</i>	LSLOAD (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAFRMS (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATASTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET5 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET6 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMLWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	TC_VDD_JFET (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET3V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET6V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET2V (description="Parameter Value", quantity="1")

<i>Int1d</i>	PMWJFET3V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCJFETV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	OBSVER (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	TMMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	FIFO_DF_FLAG (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP9TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP8TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP7TEMP (description="Parameter Value", quantity="1")

<i>Int1d</i>	LIAP6TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP5TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	DAQTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIASSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP1STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP2STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP3STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP4STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP5STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP6STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP7STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP8STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP9STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS1STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS2STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS3STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUIFSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUIFCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSSDEL (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUP14V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUM14V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUM15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUMACTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUBSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTLSW (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTMSW (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM10TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUFRAMESTART (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM12TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUFRAMES (description="Parameter Value", quantity="1")

<i>Int1d</i>	MCUTM14TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM15TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTMSTATUS (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUBOOTSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUDLOADCONF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLOSTCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLATCHSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANSTART (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANEND (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANFSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTTHRESH (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORBEMF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECFLAG (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECLVDTSIGN (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECINIT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANDIR (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANCNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG3 (description="Parameter Value", quantity="1")

<i>Int1d</i>	SMECLVDTPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTACSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTDCSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTRAJPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECPOSNDELTA (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCFINEPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMEANSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSKANPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG1AMP (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECENC SIG3AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG3OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPSENSPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSN2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPINTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFGAINDIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDIFFTC1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDIFFTC2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTIND (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGGCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMSTAT (description="Parameter Value", quantity="1")

<i>Int1d</i>	CHOPPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGSENSPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSN2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGINTREF (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGFFGAIN (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGDIFFTC1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDIFFTC2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTRES (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGCHOPCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTORVOLT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT10PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM01 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT12PARM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM10 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM14 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSSDEL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTEMPSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBITSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	CCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMECONF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMESTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4V (description="Parameter Value", quantity="1")

<i>Int1d</i>	SCUCHT2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHTRTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVAPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SHUNTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EMCFILTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	OPTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BAFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCALTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTTCBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTEVBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTHKBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTSDBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTNTBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_HP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_LP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT10STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT12STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT14STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT15STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMINTEGRITY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTPROG (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTDATA (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPROM2RAMCOPY (description="Parameter Value", quantity="1")

<i>ShortId</i>	MCUBOOTMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECSELECTTAB (description="Parameter Value", quantity="1")
<i>IntId</i>	CREC_STEP (description="Parameter Value", quantity="1")
<i>IntId</i>	PTC_STAGE (description="Parameter Value", quantity="1")
<i>IntId</i>	SCAL_STAGE (description="Parameter Value", quantity="1")
<i>IntId</i>	JIGGLE_STEP (description="Parameter Value", quantity="1")
<i>IntId</i>	LOSTRPBLOCK (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAFAILCOUNT (description="Parameter Value", quantity="1")
<i>IntId</i>	SCANRES (description="Parameter Value", quantity="1")
<i>IntId</i>	VM_SMECSIG1OFF (description="Parameter Value", quantity="1")
<i>IntId</i>	VM_SMECSIG2OFF (description="Parameter Value", quantity="1")
<i>IntId</i>	TABLE7_09_LWORD (description="Parameter Value", quantity="1")
<i>LongId</i>	PTC_GET_COMMAND (description="Parameter Value", quantity="1")
<i>LongId</i>	SCAL_GET_COMMAND (description="Parameter Value", quantity="1")
<i>LongId</i>	TABLE7_12 (description="Parameter Value", quantity="1")
<i>ShortId</i>	HK_MON_STATUS (description="Parameter Value", quantity="1")
<i>IntId</i>	CHOPIGG_DCOUPLE (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_02 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_03 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_04 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_05 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_06 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_07 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_08 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_09 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_10 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_11 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_12 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_13 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_14 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_15 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_16 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_17 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_18 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_19 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_20 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_21 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_22 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_23 (description="Parameter Value", quantity="1")
<i>LongId</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>LongId</i>	packetTime (description="TM packet time", quantity="1")
<i>IntId</i>	seqCount (description="Sequence count", quantity="1")

	()
<i>table dataset</i>	Dataset similar to the one above with (name="CHK", description="Critical HK Parameter Report")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="SPECF", description="Spectrometer Full Array (Nominal Science Report)")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="SMECSELECT", description="SMEC Selected Data (B Type Science Report)")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="BSMNOMINAL", description="BSM Block (Nominal Science Report)")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.52. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product (type="RST", description="Raw SPIRE Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")

DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
StringParameter	origin (description="Site that created the product", quantity="arcsec a-1")
StringParameter	type (description="Product Type Identification", quantity="arcsec a-1")
StringParameter	description (description="Name of this product", quantity="arcsec a-1")
StringParameter	level (description="The level of the product", quantity="arcsec a-1")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec a-1")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec a-1")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="arcsec a-1")
StringParameter	scanSpeed (description="Speed of scan", quantity="arcsec a-1")
<i>Columns</i>	
<i>table dataset</i>	(name="NHK", description="Nominal HK Parameter Report")
<i>Metadata</i>	
<i>Columns</i>	
<i>ShortId</i>	NHK_VERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_TYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_DFHFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_APID (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SEGFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SSC (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTLEN (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PUSVERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTTYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTSTYPE (description="Parameter Value", quantity="1")
<i>LongId</i>	NHK_PKTCTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTFTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	BBFULLTYPE (description="Parameter Value", quantity="1")
<i>IntId</i>	MODE (description="Parameter Value", quantity="1")

<i>Int1d</i>	STEP (description="Parameter Value", quantity="1")
<i>Long1d</i>	THSK (description="Parameter Value", quantity="1")
<i>Long1d</i>	TRESET (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCRECV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCRECN (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCEXEC (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCEXEN (description="Parameter Value", quantity="1")
<i>Int1d</i>	TM1N (description="Parameter Value", quantity="1")
<i>Int1d</i>	TM2N (description="Parameter Value", quantity="1")
<i>Int1d</i>	TM3N (description="Parameter Value", quantity="1")
<i>Int1d</i>	TM4N (description="Parameter Value", quantity="1")
<i>Int1d</i>	TM5N (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUFRAMECNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUFRAMECNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMECNT (description="Parameter Value", quantity="1")
<i>Long1d</i>	TSYNC (description="Parameter Value", quantity="1")
<i>Long1d</i>	TDIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT_1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT_2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT_3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MONSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	DCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	DCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Short1d</i>	SCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	BBCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VMSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM1STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM2STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM3STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VMSTATAFX (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE0 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS0 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP5V (description="Parameter Value", quantity="1")

<i>Int1d</i>	DPUP15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUM15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CPULOAD (description="Parameter Value", quantity="1")
<i>Long1d</i>	LSLOAD (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAFRMS (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATASTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET5 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET6 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMLWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	TC_VDD_JFET (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET3V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET6V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET1V (description="Parameter Value", quantity="1")

<i>Int1d</i>	PMWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET3V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCJFETV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	OBSVER (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	TMMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	FIFO_DF_FLAG (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLIAM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP9TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP8TEMP (description="Parameter Value", quantity="1")

<i>Int1d</i>	LIAP7TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP6TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP5TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	DAQTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIASSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP1STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP2STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP3STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP4STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP5STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP6STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP7STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP8STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP9STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS1STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS2STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS3STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUIFSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUIFCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSSDEL (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP14V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUM14V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUM15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUMACTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUBSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTLSW (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTMSW (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM10TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUFRAMESTART (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM12TSAMPLE (description="Parameter Value", quantity="1")

<i>Int1d</i>	MCUFRAMES (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM14TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTM15TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTMSTATUS (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUBOOTSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUDLOADCONF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLOSTCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLATCHSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANSTART (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANEND (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANFSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTTHRESH (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTORBEMF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECFLAG (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECLVDTSIGN (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECINIT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANDIR (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANCNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCSIG1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG2 (description="Parameter Value", quantity="1")

<i>Int1d</i>	SMECENC SIG3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDT POSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDT AC SIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDT DC SIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTRAJ POSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDAC VAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECPOSN DELTA (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC FINE POSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMEANSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSCAN POSN ERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTOR CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECMOTOR VOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG 1 AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG 1 OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG 2 AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG 2 OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG 3 AMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENC SIG 3 OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPSENS PWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPLOOP MODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOP POSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOP POSN 2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSM MODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFF OFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPINT REF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPINT LIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFGAIN DIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDIFFTC1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDIFFTC2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPRATE LIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTIND (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGGCOUPLE (description="Parameter Value", quantity="1")

<i>Int1d</i>	BSMSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGSENSPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSN2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGINTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGFFGAINDIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDIFFTC1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDIFFTC2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTBEMFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTIND (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGCHOPCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGMOTORVOLT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT10PARAM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARAM03 (description="Parameter Value", quantity="1")

<i>Int1d</i>	MCUPCKT12PARM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM10 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM14 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUIFCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSSDEL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTEMPSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBITSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	CCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMECONF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMESTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2V (description="Parameter Value", quantity="1")

<i>Int1d</i>	SCAL4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHT2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHTRTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVAPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SHUNTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EMCFILTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	OPTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BAFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCALTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTTCBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTVBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTHKBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTSDBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTNTBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_HP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_LP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT10STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT12STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT14STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT15STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMINTEGRITY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTPROG (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTDATA (description="Parameter Value", quantity="1")

<i>ShortId</i>	MCUPROM2RAMCOPY (description="Parameter Value", quantity="1")
<i>ShortId</i>	MCUBOOTMODE (description="Parameter Value", quantity="1")
<i>IntId</i>	SMECSELECTTAB (description="Parameter Value", quantity="1")
<i>IntId</i>	CREC_STEP (description="Parameter Value", quantity="1")
<i>IntId</i>	PTC_STAGE (description="Parameter Value", quantity="1")
<i>IntId</i>	SCAL_STAGE (description="Parameter Value", quantity="1")
<i>IntId</i>	JIGGLE_STEP (description="Parameter Value", quantity="1")
<i>IntId</i>	LOSTRPBLOCK (description="Parameter Value", quantity="1")
<i>IntId</i>	LIAFAILCOUNT (description="Parameter Value", quantity="1")
<i>IntId</i>	SCANRES (description="Parameter Value", quantity="1")
<i>IntId</i>	VM_SMECSIG1OFF (description="Parameter Value", quantity="1")
<i>IntId</i>	VM_SMECSIG2OFF (description="Parameter Value", quantity="1")
<i>IntId</i>	TABLE7_09_LWORD (description="Parameter Value", quantity="1")
<i>LongId</i>	PTC_GET_COMMAND (description="Parameter Value", quantity="1")
<i>LongId</i>	SCAL_GET_COMMAND (description="Parameter Value", quantity="1")
<i>LongId</i>	TABLE7_12 (description="Parameter Value", quantity="1")
<i>ShortId</i>	HK_MON_STATUS (description="Parameter Value", quantity="1")
<i>IntId</i>	CHOPJIGG_DCOUPLE (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_02 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_03 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_04 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_05 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_06 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_07 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_08 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_09 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_10 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_11 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_12 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_13 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_14 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_15 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_16 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_17 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_18 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_19 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_20 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_21 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_22 (description="Parameter Value", quantity="1")
<i>IntId</i>	HK_23 (description="Parameter Value", quantity="1")
<i>LongId</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>LongId</i>	packetTime (description="TM packet time", quantity="1")

	<i>Int1d</i>	seqCount (description="Sequence count", quantity="1")
		()
	<i>table dataset</i>	Dataset similar to the one above with (name="CHK", description="Critical HK Parameter Report")
		()
	<i>table dataset</i>	Dataset similar to the one above with (name="PHOTOFF", description="Photometer Offsets")
		()
	<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.53. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product (type="RST", description="Raw SPIRE Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")

DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
StringParameter	origin (description="Site that created the product", quantity="arcsec a-1")
StringParameter	type (description="Product Type Identification", quantity="arcsec a-1")
StringParameter	description (description="Name of this product", quantity="arcsec a-1")
StringParameter	level (description="The level of the product", quantity="arcsec a-1")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec a-1")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec a-1")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="arcsec a-1")
StringParameter	scanSpeed (description="Speed of scan", quantity="arcsec a-1")
<i>Columns</i>	
<i>table dataset</i>	(name="NHK", description="Nominal HK Parameter Report")
<i>Metadata</i>	
<i>Columns</i>	
<i>ShortId</i>	NHK_VERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_TYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_DFHFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_APID (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SEGFLAG (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_SSC (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTLEN (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PUSVERS (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTTYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	NHK_PKTSTYPE (description="Parameter Value", quantity="1")
<i>LongId</i>	NHK_PKTCTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	NHK_PKTFTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	BBFULLTYPE (description="Parameter Value", quantity="1")
<i>IntId</i>	MODE (description="Parameter Value", quantity="1")
<i>IntId</i>	STEP (description="Parameter Value", quantity="1")
<i>LongId</i>	THSK (description="Parameter Value", quantity="1")
<i>LongId</i>	TRESET (description="Parameter Value", quantity="1")
<i>IntId</i>	TCRECV (description="Parameter Value", quantity="1")
<i>IntId</i>	TCRECN (description="Parameter Value", quantity="1")
<i>IntId</i>	TCEXEC (description="Parameter Value", quantity="1")
<i>IntId</i>	TCEXEN (description="Parameter Value", quantity="1")
<i>IntId</i>	TMIN (description="Parameter Value", quantity="1")

<i>Int1d</i>	TM2N (description="Parameter Value", quantity="1")
<i>Int1d</i>	TM3N (description="Parameter Value", quantity="1")
<i>Int1d</i>	TM4N (description="Parameter Value", quantity="1")
<i>Int1d</i>	TM5N (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUFRAMECNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUFRAMECNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMECNT (description="Parameter Value", quantity="1")
<i>Long1d</i>	TSYNC (description="Parameter Value", quantity="1")
<i>Long1d</i>	TDIFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT_1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT_2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MEMSTAT_3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MONSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	DCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	DCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Short1d</i>	SCULSIFSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SCUHSIFMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	BBCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VMSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM1STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM2STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM3STAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	VMSTATAFX (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE0 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS0 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_VALUE3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SD_ADDRESS3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUM15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CPULOAD (description="Parameter Value", quantity="1")
<i>Long1d</i>	LSLOAD (description="Parameter Value", quantity="1")
<i>Int1d</i>	DPUP2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	DCUDATAFRMS (description="Parameter Value", quantity="1")

<i>Int1d</i>	DCUDATASTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET5 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PSW_VDD_JFET6 (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMLWJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET3 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET4 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	TC_VDD_JFET (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET3V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSWJFET6V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PMWJFET1V (description="Parameter Value", quantity="1")
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<i>Int1d</i>	PMWJFET3V (description="Parameter Value", quantity="1")
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<i>Int1d</i>	PLWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PHOTHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCJFETV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECBIASDIV (description="Parameter Value", quantity="1")

<i>Int1d</i>	SPECBIASMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECMCLKDIV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWBIAS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWPHASE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECJFETSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SSWJFET2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SLWJFET1V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TC3TEMP (description="Parameter Value", quantity="1")
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<i>Int1d</i>	BIASP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	OBSVER (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER1 (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER2 (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER3 (description="Parameter Value", quantity="1")
<i>Int1d</i>	TMMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	FIFO_DF_FLAG (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	PLIAP9V (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SLIAM9V (description="Parameter Value", quantity="1")
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<i>Int1d</i>	LIAP7TEMP (description="Parameter Value", quantity="1")
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<i>Int1d</i>	LIAP4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAP1TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS1TEMP (description="Parameter Value", quantity="1")

<i>Int1d</i>	LIAS2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAS3TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BIASTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	DAQTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIASSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP1STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP2STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP3STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP4STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP5STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP6STAT (description="Parameter Value", quantity="1")
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<i>Short1d</i>	LIAP8STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP9STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS1STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS2STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS3STAT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUIFCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUSSDEL (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUP14V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUM14V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUP15V (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUM15V (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUSMECTEMP (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUSCHEDCNTMSW (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUFRAMESTART (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUTM15TSAMPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUTMSTATUS (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUBOOTSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUDLOADCONF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLOSTCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECENCPWR (description="Parameter Value", quantity="1")

<i>Int1d</i>	SMECLVDTPWR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLATCHSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLOOPMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANSTART (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANEND (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANFSPEED (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANS (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECKI (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTLIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECINTTHRESH (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATELIMIT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDFILT2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRSPEED (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECMOTORBEMF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECRATESCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTSCALE (description="Parameter Value", quantity="1")
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<i>Short1d</i>	SMECLVDTSIGN (description="Parameter Value", quantity="1")
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<i>Short1d</i>	SMECSCANDIR (description="Parameter Value", quantity="1")
<i>Short1d</i>	SMECSCANCNT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECENCSIG2 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECLVDTACSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECLVDTDCSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTRAJPOSN (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECDACVAL (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SMECMOTORVOLT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOPPOSN2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFOFFSET (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPKI (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOPFFGAIN (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPFFGAINDIFF (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOPDIFFTC2 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOPMOTRES (description="Parameter Value", quantity="1")
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<i>Int1d</i>	CHOPBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGGCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPSENSSIG (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPDACVAL (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPMOTORVOLT (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGLOOPMODE (description="Parameter Value", quantity="1")

<i>Int1d</i>	JIGGPOSN (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGKP (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKD (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGKI (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGMOTBEMFGAIN (description="Parameter Value", quantity="1")
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<i>Int1d</i>	JIGGPOSNSCALE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL2 (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGCHOPCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGPOSNERR (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGSENSSIG (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT10PARM02 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT12PARM01 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT12PARM03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM01 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM02 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	MCUPCKT14PARM08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM10 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM13 (description="Parameter Value", quantity="1")
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<i>Int1d</i>	SCUIFCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSSDEL (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTEMPSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLIABITSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBITSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUP9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUM9V (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHSV (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPHTRV (description="Parameter Value", quantity="1")
<i>Int1d</i>	CCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	TCUTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP1 (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMECONF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMES (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUFRAMESTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCTRL (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALV (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHT2_5V (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUCHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	PCALCURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4CURR (description="Parameter Value", quantity="1")
<i>Int1d</i>	PSUTEMP2 (description="Parameter Value", quantity="1")

<i>Int1d</i>	SUBKSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHTRTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PUMPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EVAPHSTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SHUNTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	EMCFILTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PL0TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	OPTTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BAFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL2TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL4TEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCALTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECIFTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKTEMP (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTREF (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUTHTGND (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTTCBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTVEBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTHKBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTSDBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LOSTNTBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_HP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Int1d</i>	LS_LP_FIFOSTAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT10STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT12STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT14STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPCKT15STAT (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMINTEGRITY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTPROG (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCURAMTSTDATA (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUPROM2RAMCOPY (description="Parameter Value", quantity="1")
<i>Short1d</i>	MCUBOOTMODE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSELECTTAB (description="Parameter Value", quantity="1")
<i>Int1d</i>	CREC_STEP (description="Parameter Value", quantity="1")
<i>Int1d</i>	PTC_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCAL_STAGE (description="Parameter Value", quantity="1")
<i>Int1d</i>	JIGGLE_STEP (description="Parameter Value", quantity="1")

<i>Int1d</i>	LOSTRPBLOCK (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIAFAILCOUNT (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCANRES (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG1OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	VM_SMECSIG2OFF (description="Parameter Value", quantity="1")
<i>Int1d</i>	TABLE7_09_LWORD (description="Parameter Value", quantity="1")
<i>Long1d</i>	PTC_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	SCAL_GET_COMMAND (description="Parameter Value", quantity="1")
<i>Long1d</i>	TABLE7_12 (description="Parameter Value", quantity="1")
<i>Short1d</i>	HK_MON_STATUS (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHOPJIGG_DCOUPLE (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_02 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_03 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_04 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_05 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_06 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_07 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_08 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_09 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_10 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_11 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_12 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_13 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_14 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_15 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_16 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_17 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_18 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_19 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_20 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_21 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_22 (description="Parameter Value", quantity="1")
<i>Int1d</i>	HK_23 (description="Parameter Value", quantity="1")
<i>Long1d</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>Long1d</i>	packetTime (description="TM packet time", quantity="1")
<i>Int1d</i>	seqCount (description="Sequence count", quantity="1")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.1.54. SPIRE Product Level 0 - Raw SPIRE Timeline

<i>product (type="RST", description="Raw SPIRE Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")

DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="km s-1")
Columns	
table dataset	(name="CHK", description="Critical HK Parameter Report")
Metadata	
Columns	
Int1d	SID_C (description="Parameter Value", quantity="1")
Long1d	OBSID_C (description="Parameter Value", quantity="1")
Long1d	BBID_C (description="Parameter Value", quantity="1")
Int1d	MODE_C (description="Parameter Value", quantity="1")
Int1d	STEP_C (description="Parameter Value", quantity="1")
Int1d	TCRECV_C (description="Parameter Value", quantity="1")
Int1d	TCEXEC_C (description="Parameter Value", quantity="1")
Int1d	MEMSTAT1_C (description="Parameter Value", quantity="1")
Int1d	MEMSTAT2_C (description="Parameter Value", quantity="1")
Int1d	MEMSTAT3_C (description="Parameter Value", quantity="1")
Int1d	MONSTAT_C (description="Parameter Value", quantity="1")
Int1d	SCUDCDCSTAT_C (description="Parameter Value", quantity="1")
Int1d	MCUIFSTAT_C (description="Parameter Value", quantity="1")
Int1d	SCUIFSTAT_C (description="Parameter Value", quantity="1")
Int1d	PSWJFETSTAT_C (description="Parameter Value", quantity="1")
Short1d	PSW_VDD_JFET1_C (description="Parameter Value", quantity="1")
Short1d	PSW_VDD_JFET2_C (description="Parameter Value", quantity="1")
Short1d	PSW_VDD_JFET3_C (description="Parameter Value", quantity="1")
Short1d	PSW_VDD_JFET4_C (description="Parameter Value", quantity="1")
Short1d	PSW_VDD_JFET5_C (description="Parameter Value", quantity="1")
Short1d	PSW_VDD_JFET6_C (description="Parameter Value", quantity="1")

<i>Int1d</i>	PMLWJFETSTAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET2_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET3_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PMW_VDD_JFET4_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	PLW_VDD_JFET2_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	TC_VDD_JFET_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	SPECJFETSTAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	SLW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET1_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	SSW_VDD_JFET2_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	LIASSTAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP1STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP2STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP3STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP4STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP5STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP6STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP7STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP8STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAP9STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS1STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS2STAT_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	LIAS3STAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	MCUERR_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	SMECSTAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	BSMSTAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	SCUSTAT_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	SUBKTEMP_C (description="Parameter Value", quantity="1")
<i>Int1d</i>	OBSVER_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER1_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER2_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	OBSVER3_C (description="Parameter Value", quantity="1")
<i>Short1d</i>	CHK_VERS (description="Parameter Value", quantity="1")
<i>Short1d</i>	CHK_TYPE (description="Parameter Value", quantity="1")
<i>Short1d</i>	CHK_DFHFLAG (description="Parameter Value", quantity="1")
<i>Short1d</i>	CHK_APID (description="Parameter Value", quantity="1")
<i>Short1d</i>	CHK_SEGFLAG (description="Parameter Value", quantity="1")
<i>Short1d</i>	CHK_SSC (description="Parameter Value", quantity="1")
<i>Int1d</i>	CHK_PKTLEN (description="Parameter Value", quantity="1")
<i>Short1d</i>	CHK_PUSVERS (description="Parameter Value", quantity="1")

<i>ShortId</i>	CHK_PKTTYPE (description="Parameter Value", quantity="1")
<i>ShortId</i>	CHK_PKTSTYPE (description="Parameter Value", quantity="1")
<i>LongId</i>	CHK_PKTCTIME (description="Parameter Value", quantity="1")
<i>IntId</i>	CHK_PKTFTIME (description="Parameter Value", quantity="1")
<i>LongId</i>	sdfTime (description="SpireDataFrame time", quantity="1")
<i>LongId</i>	packetTime (description="TM packet time", quantity="1")
<i>IntId</i>	seqCount (description="Sequence count", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="NHK", description="Nominal HK Parameter Report")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="MCUENG", description="M-CU Engineering Block")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2. SPIRE Level-0.5 Products

5.2.1. SPIRE Product Level 0.5 - Critical House Keeping Timeline

<i>product (type="CHKT", description="Critical House Keeping Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")

StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	type (description="Product Type Identification", quantity="arcsec/year")
StringParameter	description (description="Name of this product", quantity="arcsec/year")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec/year")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec/year")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="s")
StringParameter	scanSpeed (description="Speed of scan", quantity="s")
<i>Columns</i>	
<i>table dataset</i>	(name="signal", description="Signal timelines")
<i>Metadata</i>	
<i>Columns</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>IntId</i>	SID_C (description="SID_C", quantity="1")
<i>LongId</i>	OBSID_C (description="OBSID_C", quantity="1")
<i>LongId</i>	BBID_C (description="BBID_C", quantity="1")
<i>StringId</i>	MODE_C (description="MODE_C", quantity="1")
<i>IntId</i>	STEP_C (description="STEP_C", quantity="1")
<i>IntId</i>	TCRECV_C (description="TCRECV_C", quantity="1")
<i>IntId</i>	TCEXEC_C (description="TCEXEC_C", quantity="1")

<i>StringId</i>	MEMSTAT1_C (description="MEMSTAT1_C", quantity="1")
<i>StringId</i>	MEMSTAT2_C (description="MEMSTAT2_C", quantity="1")
<i>StringId</i>	MEMSTAT3_C (description="MEMSTAT3_C", quantity="1")
<i>StringId</i>	MONSTAT_C (description="MONSTAT_C", quantity="1")
<i>StringId</i>	SCUDCDCSTAT_C (description="SCUDCDCSTAT_C", quantity="1")
<i>StringId</i>	MCUIFSTAT_C (description="MCUIFSTAT_C", quantity="1")
<i>StringId</i>	SCUIFSTAT_C (description="SCUIFSTAT_C", quantity="1")
<i>StringId</i>	PSWJFETSTAT_C (description="PSWJFETSTAT_C", quantity="1")
<i>StringId</i>	PSW_VDD_JFET1_C (description="PSW_VDD_JFET1_C", quantity="1")
<i>StringId</i>	PSW_VDD_JFET2_C (description="PSW_VDD_JFET2_C", quantity="1")
<i>StringId</i>	PSW_VDD_JFET3_C (description="PSW_VDD_JFET3_C", quantity="1")
<i>StringId</i>	PSW_VDD_JFET4_C (description="PSW_VDD_JFET4_C", quantity="1")
<i>StringId</i>	PSW_VDD_JFET5_C (description="PSW_VDD_JFET5_C", quantity="1")
<i>StringId</i>	PSW_VDD_JFET6_C (description="PSW_VDD_JFET6_C", quantity="1")
<i>StringId</i>	PMLWJFETSTAT_C (description="PMLWJFETSTAT_C", quantity="1")
<i>StringId</i>	PMW_VDD_JFET1_C (description="PMW_VDD_JFET1_C", quantity="1")
<i>StringId</i>	PMW_VDD_JFET2_C (description="PMW_VDD_JFET2_C", quantity="1")
<i>StringId</i>	PMW_VDD_JFET3_C (description="PMW_VDD_JFET3_C", quantity="1")
<i>StringId</i>	PMW_VDD_JFET4_C (description="PMW_VDD_JFET4_C", quantity="1")
<i>StringId</i>	PLW_VDD_JFET1_C (description="PLW_VDD_JFET1_C", quantity="1")
<i>StringId</i>	PLW_VDD_JFET2_C (description="PLW_VDD_JFET2_C", quantity="1")
<i>StringId</i>	TC_VDD_JFET_C (description="TC_VDD_JFET_C", quantity="1")
<i>StringId</i>	SPECJFETSTAT_C (description="SPECJFETSTAT_C", quantity="1")
<i>StringId</i>	SLW_VDD_JFET1_C (description="SLW_VDD_JFET1_C", quantity="1")
<i>StringId</i>	SSW_VDD_JFET1_C (description="SSW_VDD_JFET1_C", quantity="1")
<i>StringId</i>	SSW_VDD_JFET2_C (description="SSW_VDD_JFET2_C", quantity="1")
<i>StringId</i>	LIASTAT_C (description="LIASTAT_C", quantity="1")
<i>StringId</i>	LIAP1STAT_C (description="LIAP1STAT_C", quantity="1")
<i>StringId</i>	LIAP2STAT_C (description="LIAP2STAT_C", quantity="1")
<i>StringId</i>	LIAP3STAT_C (description="LIAP3STAT_C", quantity="1")

<i>StringId</i>	LIAP4STAT_C (description="LIAP4STAT_C", quantity="1")
<i>StringId</i>	LIAP5STAT_C (description="LIAP5STAT_C", quantity="1")
<i>StringId</i>	LIAP6STAT_C (description="LIAP6STAT_C", quantity="1")
<i>StringId</i>	LIAP7STAT_C (description="LIAP7STAT_C", quantity="1")
<i>StringId</i>	LIAP8STAT_C (description="LIAP8STAT_C", quantity="1")
<i>StringId</i>	LIAP9STAT_C (description="LIAP9STAT_C", quantity="1")
<i>StringId</i>	LIAS1STAT_C (description="LIAS1STAT_C", quantity="1")
<i>StringId</i>	LIAS2STAT_C (description="LIAS2STAT_C", quantity="1")
<i>StringId</i>	LIAS3STAT_C (description="LIAS3STAT_C", quantity="1")
<i>StringId</i>	MCUERR_C (description="MCUERR_C", quantity="1")
<i>StringId</i>	SMECSTAT_C (description="SMECSTAT_C", quantity="1")
<i>StringId</i>	BSMSTAT_C (description="BSMSTAT_C", quantity="1")
<i>StringId</i>	SCUSTAT_C (description="SCUSTAT_C", quantity="1")
<i>DoubleId</i>	SUBKTEMP_C (description="SUBKTEMP_C", quantity="K")
<i>IntId</i>	OBSVER_C (description="OBSVER_C", quantity="1")
<i>ShortId</i>	OBSVER1_C (description="OBSVER1_C", quantity="1")
<i>ShortId</i>	OBSVER2_C (description="OBSVER2_C", quantity="1")
<i>StringId</i>	OBSVER3_C (description="OBSVER3_C", quantity="1")
<i>StringId</i>	CHK_VERS (description="CHK_VERS", quantity="1")
<i>StringId</i>	CHK_TYPE (description="CHK_TYPE", quantity="1")
<i>StringId</i>	CHK_DFHFLAG (description="CHK_DFHFLAG", quantity="1")
<i>ShortId</i>	CHK_APID (description="CHK_APID", quantity="1")
<i>StringId</i>	CHK_SEGFLAG (description="CHK_SEGFLAG", quantity="1")
<i>ShortId</i>	CHK_SSC (description="CHK_SSC", quantity="1")
<i>IntId</i>	CHK_PKTLEN (description="CHK_PKTLEN", quantity="1")
<i>StringId</i>	CHK_PUSVERS (description="CHK_PUSVERS", quantity="1")
<i>ShortId</i>	CHK_PKTTYPE (description="CHK_PKTTYPE", quantity="1")
<i>ShortId</i>	CHK_PKTSTYPE (description="CHK_PKTSTYPE", quantity="1")
<i>LongId</i>	CHK_PKTCTIME (description="CHK_PKTCTIME", quantity="1")
<i>IntId</i>	CHK_PKTFTIME (description="CHK_PKTFTIME", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.2. SPIRE Product Level 0.5 - Nominal House Keeping Timeline

<i>product</i> (type="NHKT", description="Nominal House Keeping Timeline")	
<i>Metadata</i>	

StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	type (description="Product Type Identification", quantity="arcsec/year")
StringParameter	description (description="Name of this product", quantity="arcsec/year")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec/year")

StringParameter	bbTypeName (description="Building block type name", quantity="arcsec/year")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="s")
StringParameter	scanSpeed (description="Speed of scan", quantity="s")
<i>Columns</i>	
<i>table dataset</i>	(name="signal", description="Signal timelines")
<i>Metadata</i>	
<i>Columns</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>StringId</i>	NHK_VERS (description="NHK_VERS", quantity="1")
<i>StringId</i>	NHK_TYPE (description="NHK_TYPE", quantity="1")
<i>StringId</i>	NHK_DFHFLAG (description="NHK_DFHFLAG", quantity="1")
<i>ShortId</i>	NHK_APID (description="NHK_APID", quantity="1")
<i>StringId</i>	NHK_SEGFLAG (description="NHK_SEGFLAG", quantity="1")
<i>ShortId</i>	NHK_SSC (description="NHK_SSC", quantity="1")
<i>IntId</i>	NHK_PKTLEN (description="NHK_PKTLEN", quantity="1")
<i>StringId</i>	NHK_PUSVERS (description="NHK_PUSVERS", quantity="1")
<i>ShortId</i>	NHK_PKTTYPE (description="NHK_PKTTYPE", quantity="1")
<i>ShortId</i>	NHK_PKTSTYPE (description="NHK_PKTSTYPE", quantity="1")
<i>LongId</i>	NHK_PKTCTIME (description="NHK_PKTCTIME", quantity="1")
<i>IntId</i>	NHK_PKTFTIME (description="NHK_PKTFTIME", quantity="1")
<i>StringId</i>	BBFULLTYPE (description="BBFULLTYPE", quantity="1")
<i>StringId</i>	MODE (description="MODE", quantity="1")
<i>IntId</i>	STEP (description="STEP", quantity="1")
<i>StringId</i>	THSK (description="THSK", quantity="1")
<i>LongId</i>	TRESET (description="TRESET", quantity="1")
<i>IntId</i>	TCRECV (description="TCRECV", quantity="1")
<i>IntId</i>	TCRECN (description="TCRECN", quantity="1")
<i>IntId</i>	TCEXEC (description="TCEXEC", quantity="1")
<i>IntId</i>	TCEXEN (description="TCEXEN", quantity="1")
<i>IntId</i>	TM1N (description="TM1N", quantity="1")
<i>IntId</i>	TM2N (description="TM2N", quantity="1")
<i>IntId</i>	TM3N (description="TM3N", quantity="1")
<i>IntId</i>	TM4N (description="TM4N", quantity="1")
<i>IntId</i>	TM5N (description="TM5N", quantity="1")
<i>IntId</i>	DCUFRAMECNT (description="DCUFRAMECNT", quantity="1")
<i>IntId</i>	MCUFRAMECNT (description="MCUFRAMECNT", quantity="1")
<i>IntId</i>	SCUFRAMECNT (description="SCUFRAMECNT", quantity="1")
<i>StringId</i>	TSYNC (description="TSYNC", quantity="1")
<i>StringId</i>	TDIFF (description="TDIFF", quantity="1")

<i>String1d</i>	MEMSTAT_1 (description="MEMSTAT_1", quantity="1")
<i>String1d</i>	MEMSTAT_2 (description="MEMSTAT_2", quantity="1")
<i>String1d</i>	MEMSTAT_3 (description="MEMSTAT_3", quantity="1")
<i>String1d</i>	MONSTAT (description="MONSTAT", quantity="1")
<i>String1d</i>	DCULSIFSTAT (description="DCULSIFSTAT", quantity="1")
<i>String1d</i>	DCUHSIFMODE (description="DCUHSIFMODE", quantity="1")
<i>String1d</i>	MCULSIFSTAT (description="MCULSIFSTAT", quantity="1")
<i>String1d</i>	MCUHSIFMODE (description="MCUHSIFMODE", quantity="1")
<i>String1d</i>	SCULSIFSTAT (description="SCULSIFSTAT", quantity="1")
<i>String1d</i>	SCUHSMODE (description="SCUHSMODE", quantity="1")
<i>Int1d</i>	BBCOUNT (description="BBCOUNT", quantity="1")
<i>Int1d</i>	VMSTAT (description="VMSTAT", quantity="1")
<i>Int1d</i>	VM1STAT (description="VM1STAT", quantity="1")
<i>Int1d</i>	VM2STAT (description="VM2STAT", quantity="1")
<i>Int1d</i>	VM3STAT (description="VM3STAT", quantity="1")
<i>Int1d</i>	VMSTATAFX (description="VMSTATAFX", quantity="1")
<i>Int1d</i>	SD_VALUE0 (description="SD_VALUE0", quantity="1")
<i>Int1d</i>	SD_ADDRESS0 (description="SD_ADDRESS0", quantity="1")
<i>Int1d</i>	SD_VALUE1 (description="SD_VALUE1", quantity="1")
<i>Int1d</i>	SD_ADDRESS1 (description="SD_ADDRESS1", quantity="1")
<i>Int1d</i>	SD_VALUE2 (description="SD_VALUE2", quantity="1")
<i>Int1d</i>	SD_ADDRESS2 (description="SD_ADDRESS2", quantity="1")
<i>Int1d</i>	SD_VALUE3 (description="SD_VALUE3", quantity="1")
<i>Int1d</i>	SD_ADDRESS3 (description="SD_ADDRESS3", quantity="1")
<i>Double1d</i>	DPUP5V (description="DPUP5V", quantity="V")
<i>Double1d</i>	DPUP15V (description="DPUP15V", quantity="V")
<i>Double1d</i>	DPUM15V (description="DPUM15V", quantity="V")
<i>Double1d</i>	DPUTEMP (description="DPUTEMP", quantity="K")
<i>Int1d</i>	CPULOAD (description="CPULOAD", quantity="1")
<i>Long1d</i>	LSLOAD (description="LSLOAD", quantity="1")
<i>Double1d</i>	DPUP2_5V (description="DPUP2_5V", quantity="V")
<i>String1d</i>	DCUDATAMODE (description="DCUDATAMODE", quantity="1")
<i>String1d</i>	DCUDATAFRMS (description="DCUDATAFRMS", quantity="1")
<i>String1d</i>	DCUDATASTAT (description="DCUDATASTAT", quantity="1")
<i>Int1d</i>	PHOTBIASDIV (description="PHOTBIASDIV", quantity="1")
<i>String1d</i>	PHOTBIASMODE (description="PHOTBIASMODE", quantity="1")
<i>Int1d</i>	PHOTMCLKDIV (description="PHOTMCLKDIV", quantity="1")
<i>Double1d</i>	PSWBIAS (description="PSWBIAS", quantity="V")
<i>Double1d</i>	PMWBIAS (description="PMWBIAS", quantity="V")
<i>Double1d</i>	PLWBIAS (description="PLWBIAS", quantity="V")
<i>Double1d</i>	TCBIAS (description="TCBIAS", quantity="V")
<i>Double1d</i>	PSWPHASE (description="PSWPHASE", quantity="deg")

<i>DoubleId</i>	PMWPHASE (description="PMWPHASE", quantity="deg")
<i>DoubleId</i>	PLWPHASE (description="PLWPHASE", quantity="deg")
<i>DoubleId</i>	TCPHASE (description="TCPHASE", quantity="deg")
<i>IntId</i>	PSWJFETSTAT (description="PSWJFETSTAT", quantity="1")
<i>StringId</i>	PSW_VDD_JFET1 (description="PSW_VDD_JFET1", quantity="1")
<i>StringId</i>	PSW_VDD_JFET2 (description="PSW_VDD_JFET2", quantity="1")
<i>StringId</i>	PSW_VDD_JFET3 (description="PSW_VDD_JFET3", quantity="1")
<i>StringId</i>	PSW_VDD_JFET4 (description="PSW_VDD_JFET4", quantity="1")
<i>StringId</i>	PSW_VDD_JFET5 (description="PSW_VDD_JFET5", quantity="1")
<i>StringId</i>	PSW_VDD_JFET6 (description="PSW_VDD_JFET6", quantity="1")
<i>IntId</i>	PMLWJFETSTAT (description="PMLWJFETSTAT", quantity="1")
<i>StringId</i>	PMW_VDD_JFET1 (description="PMW_VDD_JFET1", quantity="1")
<i>StringId</i>	PMW_VDD_JFET2 (description="PMW_VDD_JFET2", quantity="1")
<i>StringId</i>	PMW_VDD_JFET3 (description="PMW_VDD_JFET3", quantity="1")
<i>StringId</i>	PMW_VDD_JFET4 (description="PMW_VDD_JFET4", quantity="1")
<i>StringId</i>	PLW_VDD_JFET1 (description="PLW_VDD_JFET1", quantity="1")
<i>StringId</i>	PLW_VDD_JFET2 (description="PLW_VDD_JFET2", quantity="1")
<i>StringId</i>	TC_VDD_JFET (description="TC_VDD_JFET", quantity="1")
<i>DoubleId</i>	PSWJFET1V (description="PSWJFET1V", quantity="V")
<i>DoubleId</i>	PSWJFET2V (description="PSWJFET2V", quantity="V")
<i>DoubleId</i>	PSWJFET3V (description="PSWJFET3V", quantity="V")
<i>DoubleId</i>	PSWJFET4V (description="PSWJFET4V", quantity="V")
<i>DoubleId</i>	PSWJFET5V (description="PSWJFET5V", quantity="V")
<i>DoubleId</i>	PSWJFET6V (description="PSWJFET6V", quantity="V")
<i>DoubleId</i>	PMWJFET1V (description="PMWJFET1V", quantity="V")
<i>DoubleId</i>	PMWJFET2V (description="PMWJFET2V", quantity="V")
<i>DoubleId</i>	PMWJFET3V (description="PMWJFET3V", quantity="V")
<i>DoubleId</i>	PMWJFET4V (description="PMWJFET4V", quantity="V")
<i>DoubleId</i>	PLWJFET1V (description="PLWJFET1V", quantity="V")
<i>DoubleId</i>	PLWJFET2V (description="PLWJFET2V", quantity="V")
<i>DoubleId</i>	PHOTHTRV (description="PHOTHTRV", quantity="V")
<i>DoubleId</i>	TCJFETV (description="TCJFETV", quantity="V")
<i>IntId</i>	SPECBIASDIV (description="SPECBIASDIV", quantity="1")
<i>StringId</i>	SPECBIASMODE (description="SPECBIASMODE", quantity="1")
<i>IntId</i>	SPECMCLKDIV (description="SPECMCLKDIV", quantity="1")
<i>DoubleId</i>	SSWBIAS (description="SSWBIAS", quantity="V")
<i>DoubleId</i>	SLWBIAS (description="SLWBIAS", quantity="V")
<i>DoubleId</i>	SSWPHASE (description="SSWPHASE", quantity="deg")
<i>DoubleId</i>	SLWPHASE (description="SLWPHASE", quantity="deg")
<i>IntId</i>	SPECJFETSTAT (description="SPECJFETSTAT", quantity="1")
<i>StringId</i>	SLW_VDD_JFET1 (description="SLW_VDD_JFET1", quantity="1")
<i>StringId</i>	SSW_VDD_JFET1 (description="SSW_VDD_JFET1", quantity="1")

<i>String1d</i>	SSW_VDD_JFET2 (description="SSW_VDD_JFET2", quantity="1")
<i>Double1d</i>	SSWJFET1V (description="SSWJFET1V", quantity="V")
<i>Double1d</i>	SSWJFET2V (description="SSWJFET2V", quantity="V")
<i>Double1d</i>	SLWJFET1V (description="SLWJFET1V", quantity="V")
<i>Double1d</i>	SPECHTRV (description="SPECHTRV", quantity="V")
<i>Double1d</i>	TC1TEMP (description="TC1TEMP", quantity="V")
<i>Double1d</i>	TC2TEMP (description="TC2TEMP", quantity="V")
<i>Double1d</i>	TC3TEMP (description="TC3TEMP", quantity="V")
<i>Double1d</i>	BIASP5V (description="BIASP5V", quantity="V")
<i>Double1d</i>	BIASP9V (description="BIASP9V", quantity="V")
<i>Double1d</i>	BIASM9V (description="BIASM9V", quantity="V")
<i>Int1d</i>	OBSVER (description="OBSVER", quantity="1")
<i>Short1d</i>	OBSVER1 (description="OBSVER1", quantity="1")
<i>Short1d</i>	OBSVER2 (description="OBSVER2", quantity="1")
<i>String1d</i>	OBSVER3 (description="OBSVER3", quantity="1")
<i>String1d</i>	TMMODE (description="TMMODE", quantity="1")
<i>Int1d</i>	FIFO_DF_FLAG (description="FIFO_DF_FLAG", quantity="1")
<i>Double1d</i>	PLIAP5V (description="PLIAP5V", quantity="V")
<i>Double1d</i>	PLIAP9V (description="PLIAP9V", quantity="V")
<i>Double1d</i>	PLIAM9V (description="PLIAM9V", quantity="V")
<i>Double1d</i>	SLIAP5V (description="SLIAP5V", quantity="V")
<i>Double1d</i>	SLIAP9V (description="SLIAP9V", quantity="V")
<i>Double1d</i>	SLIAM9V (description="SLIAM9V", quantity="V")
<i>Double1d</i>	LIAP9TEMP (description="LIAP9TEMP", quantity="K")
<i>Double1d</i>	LIAP8TEMP (description="LIAP8TEMP", quantity="K")
<i>Double1d</i>	LIAP7TEMP (description="LIAP7TEMP", quantity="K")
<i>Double1d</i>	LIAP6TEMP (description="LIAP6TEMP", quantity="K")
<i>Double1d</i>	LIAP5TEMP (description="LIAP5TEMP", quantity="K")
<i>Double1d</i>	LIAP4TEMP (description="LIAP4TEMP", quantity="K")
<i>Double1d</i>	LIAP3TEMP (description="LIAP3TEMP", quantity="K")
<i>Double1d</i>	LIAP2TEMP (description="LIAP2TEMP", quantity="K")
<i>Double1d</i>	LIAP1TEMP (description="LIAP1TEMP", quantity="K")
<i>Double1d</i>	LIAS1TEMP (description="LIAS1TEMP", quantity="K")
<i>Double1d</i>	LIAS2TEMP (description="LIAS2TEMP", quantity="K")
<i>Double1d</i>	LIAS3TEMP (description="LIAS3TEMP", quantity="K")
<i>Double1d</i>	BIASTEMP (description="BIASTEMP", quantity="K")
<i>Double1d</i>	DAQTEMP (description="DAQTEMP", quantity="K")
<i>Int1d</i>	LIASSTAT (description="LIASSTAT", quantity="1")
<i>String1d</i>	LIAP1STAT (description="LIAP1STAT", quantity="1")
<i>String1d</i>	LIAP2STAT (description="LIAP2STAT", quantity="1")
<i>String1d</i>	LIAP3STAT (description="LIAP3STAT", quantity="1")
<i>String1d</i>	LIAP4STAT (description="LIAP4STAT", quantity="1")

<i>String1d</i>	LIAP5STAT (description="LIAP5STAT", quantity="1")
<i>String1d</i>	LIAP6STAT (description="LIAP6STAT", quantity="1")
<i>String1d</i>	LIAP7STAT (description="LIAP7STAT", quantity="1")
<i>String1d</i>	LIAP8STAT (description="LIAP8STAT", quantity="1")
<i>String1d</i>	LIAP9STAT (description="LIAP9STAT", quantity="1")
<i>String1d</i>	LIAS1STAT (description="LIAS1STAT", quantity="1")
<i>String1d</i>	LIAS2STAT (description="LIAS2STAT", quantity="1")
<i>String1d</i>	LIAS3STAT (description="LIAS3STAT", quantity="1")
<i>Int1d</i>	MCUIFSTAT (description="MCUIFSTAT", quantity="1")
<i>Int1d</i>	MCUIFCTRL (description="MCUIFCTRL", quantity="1")
<i>Int1d</i>	MCUSSDEL (description="MCUSSDEL", quantity="1")
<i>Double1d</i>	MCUP5V (description="MCUP5V", quantity="V")
<i>Double1d</i>	MCUP14V (description="MCUP14V", quantity="V")
<i>Double1d</i>	MCUM14V (description="MCUM14V", quantity="V")
<i>Double1d</i>	MCUP15V (description="MCUP15V", quantity="V")
<i>Double1d</i>	MCUM15V (description="MCUM15V", quantity="V")
<i>Double1d</i>	MCUMACTEMP (description="MCUMACTEMP", quantity="K")
<i>Double1d</i>	MCUSMECTEMP (description="MCUSMECTEMP", quantity="K")
<i>Double1d</i>	MCUBSMTEMP (description="MCUBSMTEMP", quantity="K")
<i>String1d</i>	MCUERR (description="MCUERR", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTLSW (description="MCUSCHEDCNTLSW", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTMSW (description="MCUSCHEDCNTMSW", quantity="1")
<i>Int1d</i>	MCUTM10TSAMPLE (description="MCUTM10TSAMPLE", quantity="1")
<i>String1d</i>	MCUFRAMESTART (description="MCUFRAMESTART", quantity="1")
<i>Int1d</i>	MCUTM12TSAMPLE (description="MCUTM12TSAMPLE", quantity="1")
<i>Int1d</i>	MCUFRAMES (description="MCUFRAMES", quantity="1")
<i>Int1d</i>	MCUTM14TSAMPLE (description="MCUTM14TSAMPLE", quantity="1")
<i>Int1d</i>	MCUTM15TSAMPLE (description="MCUTM15TSAMPLE", quantity="1")
<i>String1d</i>	MCUTMSTATUS (description="MCUTMSTATUS", quantity="1")
<i>String1d</i>	MCUBOOTSTAT (description="MCUBOOTSTAT", quantity="1")
<i>Int1d</i>	MCUDLOADCONF (description="MCUDLOADCONF", quantity="1")
<i>Int1d</i>	SMECLOSTCOUNT (description="SMECLOSTCOUNT", quantity="1")
<i>Int1d</i>	SMECENCPCR (description="SMECENCPCR", quantity="1")
<i>String1d</i>	SMECLVDTPWR (description="SMECLVDTPWR", quantity="1")
<i>String1d</i>	SMECLATCHSTAT (description="SMECLATCHSTAT", quantity="1")
<i>String1d</i>	SMECLOOPMODE (description="SMECLOOPMODE", quantity="1")
<i>Double1d</i>	SCANSTART (description="SCANSTART", quantity="cm")

<i>DoubleId</i>	SCANEND (description="SCANEND", quantity="cm")
<i>IntId</i>	SCANFSPEED (description="SCANFSPEED", quantity="1")
<i>IntId</i>	SCANS (description="SCANS", quantity="1")
<i>StringId</i>	SCANMODE (description="SCANMODE", quantity="1")
<i>IntId</i>	SMECKP (description="SMECKP", quantity="1")
<i>IntId</i>	SMECKD (description="SMECKD", quantity="1")
<i>IntId</i>	SMECDFILT (description="SMECDFILT", quantity="1")
<i>IntId</i>	SMECKI (description="SMECKI", quantity="1")
<i>IntId</i>	SMECINTLIMIT (description="SMECINTLIMIT", quantity="1")
<i>IntId</i>	SMECINTTHRESH (description="SMECINTTHRESH", quantity="1")
<i>IntId</i>	SMECRATELIMIT (description="SMECRATELIMIT", quantity="1")
<i>IntId</i>	SMECDFILT2 (description="SMECDFILT2", quantity="1")
<i>IntId</i>	SMECFFGAIN (description="SMECFFGAIN", quantity="1")
<i>IntId</i>	SMECFFOFFSET (description="SMECFFOFFSET", quantity="1")
<i>IntId</i>	SCANRSPEED (description="SCANRSPEED", quantity="1")
<i>IntId</i>	SMECBEMFGAIN (description="SMECBEMFGAIN", quantity="1")
<i>IntId</i>	SMECMOTORRES (description="SMECMOTORRES", quantity="1")
<i>IntId</i>	SMECMOTORBEMF (description="SMECMOTORBEMF", quantity="1")
<i>IntId</i>	SMECRATESCALE (description="SMECRATESCALE", quantity="1")
<i>DoubleId</i>	SMECLVDTOFFSET (description="SMECLVDTOFFSET", quantity="cm")
<i>DoubleId</i>	SMECLVDTSKALE (description="SMECLVDTSKALE", quantity="cm")
<i>StringId</i>	SMECSTAT (description="SMECSTAT", quantity="1")
<i>StringId</i>	SMECFLAG (description="SMECFLAG", quantity="1")
<i>StringId</i>	SMECLVDTSIGN (description="SMECLVDTSIGN", quantity="1")
<i>StringId</i>	SMECINIT (description="SMECINIT", quantity="1")
<i>StringId</i>	SMECSCANDIR (description="SMECSCANDIR", quantity="1")
<i>ShortId</i>	SMECSCANCNT (description="SMECSCANCNT", quantity="1")
<i>DoubleId</i>	SMECENCPOSN (description="SMECENCPOSN", quantity="cm")
<i>IntId</i>	SMECENC SIG1 (description="SMECENC SIG1", quantity="1")
<i>IntId</i>	SMECENC SIG2 (description="SMECENC SIG2", quantity="1")
<i>IntId</i>	SMECENC SIG3 (description="SMECENC SIG3", quantity="1")
<i>DoubleId</i>	SMECLVDTPOSN (description="SMECLVDTPOSN", quantity="cm")
<i>IntId</i>	SMECLVDTAC SIG (description="SMECLVDTAC SIG", quantity="1")
<i>IntId</i>	SMECLVDTDC SIG (description="SMECLVDTDC SIG", quantity="1")
<i>DoubleId</i>	SMECTRAJ POSN (description="SMECTRAJ POSN", quantity="cm")
<i>IntId</i>	SMECDACVAL (description="SMECDACVAL", quantity="1")
<i>DoubleId</i>	SMECPOSNDELTA (description="SMECPOSNDELTA", quantity="cm")
<i>DoubleId</i>	SMECENC FINE POSN (description="SMECENC FINE POSN", quantity="cm")

<i>Int1d</i>	SMECMEANSPEED (description="SMECMEANSPEED", quantity="1")
<i>Double1d</i>	SMECSCANPOSNERR (description="SMECSCANPOSNERR", quantity="cm")
<i>Double1d</i>	SMECMOTORCURR (description="SMECMOTORCURR", quantity="A")
<i>Double1d</i>	SMECMOTORVOLT (description="SMECMOTORVOLT", quantity="V")
<i>Int1d</i>	SMECENC SIG1AMP (description="SMECENC SIG1AMP", quantity="1")
<i>Int1d</i>	SMECENC SIG1OFF (description="SMECENC SIG1OFF", quantity="1")
<i>Int1d</i>	SMECENC SIG2AMP (description="SMECENC SIG2AMP", quantity="1")
<i>Int1d</i>	SMECENC SIG2OFF (description="SMECENC SIG2OFF", quantity="1")
<i>Int1d</i>	SMECENC SIG3AMP (description="SMECENC SIG3AMP", quantity="1")
<i>Int1d</i>	SMECENC SIG3OFF (description="SMECENC SIG3OFF", quantity="1")
<i>String1d</i>	CHOPSENSPWR (description="CHOPSENSPWR", quantity="1")
<i>String1d</i>	CHOPLOOPMODE (description="CHOPLOOPMODE", quantity="1")
<i>Int1d</i>	CHOPPOSN (description="CHOPPOSN", quantity="1")
<i>Int1d</i>	CHOPPOSN2 (description="CHOPPOSN2", quantity="1")
<i>String1d</i>	BSMMODE (description="BSMMODE", quantity="1")
<i>Int1d</i>	CHOPFFOFFSET (description="CHOPFFOFFSET", quantity="1")
<i>Int1d</i>	CHOPKP (description="CHOPKP", quantity="1")
<i>Int1d</i>	CHOPKD (description="CHOPKD", quantity="1")
<i>Int1d</i>	CHOPKI (description="CHOPKI", quantity="1")
<i>Int1d</i>	CHOPINTREF (description="CHOPINTREF", quantity="1")
<i>Int1d</i>	CHOPINTLIMIT (description="CHOPINTLIMIT", quantity="1")
<i>Int1d</i>	CHOPFFGAIN (description="CHOPFFGAIN", quantity="1")
<i>Int1d</i>	CHOPFFGAINDIFF (description="CHOPFFGAINDIFF", quantity="1")
<i>Int1d</i>	CHOPDIFFTC1 (description="CHOPDIFFTC1", quantity="1")
<i>Int1d</i>	CHOPDIFFTC2 (description="CHOPDIFFTC2", quantity="1")
<i>Int1d</i>	CHOPRATELIMIT (description="CHOPRATELIMIT", quantity="1")
<i>Int1d</i>	CHOPMOTBEMFGAIN (description="CHOPMOTBEMFGAIN", quantity="1")
<i>Int1d</i>	CHOPMOTRES (description="CHOPMOTRES", quantity="1")
<i>Int1d</i>	CHOPMOTIND (description="CHOPMOTIND", quantity="1")
<i>Int1d</i>	CHOPRATESCALE (description="CHOPRATESCALE", quantity="1")
<i>Int1d</i>	CHOPPOSNSCALE (description="CHOPPOSNSCALE", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL1 (description="CHOPBEMFRATFIL1", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL2 (description="CHOPBEMFRATFIL2", quantity="1")
<i>Int1d</i>	CHOPJIGGCOUPLE (description="CHOPJIGGCOUPLE", quantity="1")

<i>String1d</i>	BSMSTAT (description="BSMSTAT", quantity="1")
<i>Int1d</i>	CHOPPOSNERR (description="CHOPPOSNERR", quantity="1")
<i>Int1d</i>	CHOPSENSSIG (description="CHOPSENSSIG", quantity="1")
<i>Double1d</i>	CHOPDACVAL (description="CHOPDACVAL", quantity="V")
<i>Double1d</i>	CHOPMOTORCURR (description="CHOPMOTORCURR", quantity="A")
<i>Double1d</i>	CHOPMOTORVOLT (description="CHOPMOTORVOLT", quantity="V")
<i>String1d</i>	JIGGSENSPWR (description="JIGGSENSPWR", quantity="1")
<i>String1d</i>	JIGGLOOPMODE (description="JIGGLOOPMODE", quantity="1")
<i>Int1d</i>	JIGGPOSN (description="JIGGPOSN", quantity="1")
<i>Int1d</i>	JIGGPOSN2 (description="JIGGPOSN2", quantity="1")
<i>Int1d</i>	JIGGFFOFFSET (description="JIGGFFOFFSET", quantity="1")
<i>Int1d</i>	JIGGKP (description="JIGGKP", quantity="1")
<i>Int1d</i>	JIGGKD (description="JIGGKD", quantity="1")
<i>Int1d</i>	JIGGKI (description="JIGGKI", quantity="1")
<i>Int1d</i>	JIGGINTREF (description="JIGGINTREF", quantity="1")
<i>Int1d</i>	JIGGINTLIMIT (description="JIGGINTLIMIT", quantity="1")
<i>Int1d</i>	JIGGFFGAIN (description="JIGGFFGAIN", quantity="1")
<i>Int1d</i>	JIGGFFGAINDIFF (description="JIGGFFGAINDIFF", quantity="1")
<i>Int1d</i>	JIGGDIFFTC1 (description="JIGGDIFFTC1", quantity="1")
<i>Int1d</i>	JIGGDIFFTC2 (description="JIGGDIFFTC2", quantity="1")
<i>Int1d</i>	JIGGRATELIMIT (description="JIGGRATELIMIT", quantity="1")
<i>Int1d</i>	JIGGMOTBEMFGAIN (description="JIGGMOTBEMFGAIN", quantity="1")
<i>Int1d</i>	JIGGMOTRES (description="JIGGMOTRES", quantity="1")
<i>Int1d</i>	JIGGMOTIND (description="JIGGMOTIND", quantity="1")
<i>Int1d</i>	JIGGRATESCALE (description="JIGGRATESCALE", quantity="1")
<i>Int1d</i>	JIGGPOSNSCALE (description="JIGGPOSNSCALE", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL1 (description="JIGGBEMFRATFIL1", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL2 (description="JIGGBEMFRATFIL2", quantity="1")
<i>Int1d</i>	JIGGCHOPCOUPLE (description="JIGGCHOPCOUPLE", quantity="1")
<i>Int1d</i>	JIGGPOSNERR (description="JIGGPOSNERR", quantity="1")
<i>Int1d</i>	JIGGSENSSIG (description="JIGGSENSSIG", quantity="1")
<i>Double1d</i>	JIGGDACVAL (description="JIGGDACVAL", quantity="V")
<i>Double1d</i>	JIGGMOTORCURR (description="JIGGMOTORCURR", quantity="A")
<i>Double1d</i>	JIGGMOTORVOLT (description="JIGGMOTORVOLT", quantity="V")
<i>Int1d</i>	MCUPCKT10PARM05 (description="MCUPCKT10PARM05", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM01 (description="MCUPCKT10PARM01", quantity="1")

<i>Int1d</i>	MCUPCKT10PARM02 (description="MCUPCKT10PARM02", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM03 (description="MCUPCKT10PARM03", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM04 (description="MCUPCKT10PARM04", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM01 (description="MCUPCKT12PARM01", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM02 (description="MCUPCKT12PARM02", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM03 (description="MCUPCKT12PARM03", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM04 (description="MCUPCKT12PARM04", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM05 (description="MCUPCKT12PARM05", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM06 (description="MCUPCKT12PARM06", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM01 (description="MCUPCKT14PARM01", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM02 (description="MCUPCKT14PARM02", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM03 (description="MCUPCKT14PARM03", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM04 (description="MCUPCKT14PARM04", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM05 (description="MCUPCKT14PARM05", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM06 (description="MCUPCKT14PARM06", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM07 (description="MCUPCKT14PARM07", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM08 (description="MCUPCKT14PARM08", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM09 (description="MCUPCKT14PARM09", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM10 (description="MCUPCKT14PARM10", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM11 (description="MCUPCKT14PARM11", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM12 (description="MCUPCKT14PARM12", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM13 (description="MCUPCKT14PARM13", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM14 (description="MCUPCKT14PARM14", quantity="1")
<i>Int1d</i>	SCUIFSTAT (description="SCUIFSTAT", quantity="1")
<i>Int1d</i>	SCUIFCTRL (description="SCUIFCTRL", quantity="1")

<i>Int1d</i>	SCUSSDEL (description="SCUSSDEL", quantity="1")
<i>Int1d</i>	SCUSTAT (description="SCUSTAT", quantity="1")
<i>Int1d</i>	SCUTEMPSTAT (description="SCUTEMPSTAT", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT (description="SCUDCDCSTAT", quantity="1")
<i>String1d</i>	PLIABITSTAT (description="PLIABITSTAT", quantity="1")
<i>String1d</i>	SLIABITSTAT (description="SLIABITSTAT", quantity="1")
<i>String1d</i>	MCUBITSTAT (description="MCUBITSTAT", quantity="1")
<i>Double1d</i>	SCUP5V (description="SCUP5V", quantity="V")
<i>Double1d</i>	SCUP9V (description="SCUP9V", quantity="V")
<i>Double1d</i>	SCUM9V (description="SCUM9V", quantity="V")
<i>Double1d</i>	EVHSV (description="EVHSV", quantity="V")
<i>Double1d</i>	SPHSV (description="SPHSV", quantity="V")
<i>Double1d</i>	TCHTRV (description="TCHTRV", quantity="V")
<i>Double1d</i>	SPHTRV (description="SPHTRV", quantity="V")
<i>Double1d</i>	CCUTEMP (description="CCUTEMP", quantity="K")
<i>Double1d</i>	TCUTEMP (description="TCUTEMP", quantity="K")
<i>Double1d</i>	PSUTEMP1 (description="PSUTEMP1", quantity="K")
<i>Int1d</i>	SCUFRAMECONF (description="SCUFRAMECONF", quantity="1")
<i>Int1d</i>	SCUFRAMES (description="SCUFRAMES", quantity="1")
<i>Int1d</i>	SCUFRAMESTAT (description="SCUFRAMESTAT", quantity="1")
<i>Int1d</i>	SCUCTRL (description="SCUCTRL", quantity="1")
<i>Double1d</i>	PCALV (description="PCALV", quantity="V")
<i>Double1d</i>	SCAL2V (description="SCAL2V", quantity="V")
<i>Double1d</i>	SCAL4V (description="SCAL4V", quantity="V")
<i>Double1d</i>	SCUCHT2_5V (description="SCUCHT2_5V", quantity="V")
<i>Double1d</i>	SCUCHTREF (description="SCUCHTREF", quantity="V")
<i>Double1d</i>	SCUCHTGND (description="SCUCHTGND", quantity="V")
<i>Double1d</i>	PCALCURR (description="PCALCURR", quantity="A")
<i>Double1d</i>	SCAL2CURR (description="SCAL2CURR", quantity="A")
<i>Double1d</i>	SCAL4CURR (description="SCAL4CURR", quantity="A")
<i>Double1d</i>	PSUTEMP2 (description="PSUTEMP2", quantity="K")
<i>String1d</i>	SUBKSTAT (description="SUBKSTAT", quantity="1")
<i>Double1d</i>	PUMPHRTEMP (description="PUMPHRTEMP", quantity="K")
<i>Double1d</i>	PUMPHSTEMP (description="PUMPHSTEMP", quantity="K")
<i>Double1d</i>	EVAPHSTEMP (description="EVAPHSTEMP", quantity="K")
<i>Double1d</i>	SHUNTTEMP (description="SHUNTTEMP", quantity="K")
<i>Double1d</i>	EMCFILTEMP (description="EMCFILTEMP", quantity="K")
<i>Double1d</i>	SL0TEMP (description="SL0TEMP", quantity="K")
<i>Double1d</i>	PL0TEMP (description="PL0TEMP", quantity="K")
<i>Double1d</i>	OPTTEMP (description="OPTTEMP", quantity="K")
<i>Double1d</i>	BAFTEMP (description="BAFTEMP", quantity="K")
<i>Double1d</i>	BSMIFTEMP (description="BSMIFTEMP", quantity="K")

<i>Double1d</i>	SCAL2TEMP (description="SCAL2TEMP", quantity="K")
<i>Double1d</i>	SCAL4TEMP (description="SCAL4TEMP", quantity="K")
<i>Double1d</i>	SCALTEMP (description="SCALTEMP", quantity="K")
<i>Double1d</i>	SMECIFTEMP (description="SMECIFTEMP", quantity="K")
<i>Double1d</i>	SMECTEMP (description="SMECTEMP", quantity="K")
<i>Double1d</i>	BSMTEMP (description="BSMTEMP", quantity="K")
<i>Double1d</i>	SUBKTEMP (description="SUBKTEMP", quantity="K")
<i>Double1d</i>	SCUTHTREF (description="SCUTHTREF", quantity="V")
<i>Double1d</i>	SCUTHTGND (description="SCUTHTGND", quantity="V")
<i>Int1d</i>	LOSTTCBLOCK (description="LOSTTCBLOCK", quantity="1")
<i>Int1d</i>	LOSTEVBLOCK (description="LOSTEVBLOCK", quantity="1")
<i>Int1d</i>	LOSTHKBLOCK (description="LOSTHKBLOCK", quantity="1")
<i>Int1d</i>	LOSTSDBLOCK (description="LOSTSDBLOCK", quantity="1")
<i>Int1d</i>	LOSTNTBLOCK (description="LOSTNTBLOCK", quantity="1")
<i>Int1d</i>	LS_HP_FIFOSTAT (description="LS_HP_FIFOSTAT", quantity="1")
<i>Int1d</i>	LS_LP_FIFOSTAT (description="LS_LP_FIFOSTAT", quantity="1")
<i>String1d</i>	MCUPCKT10STAT (description="MCUPCKT10STAT", quantity="1")
<i>String1d</i>	MCUPCKT12STAT (description="MCUPCKT12STAT", quantity="1")
<i>String1d</i>	MCUPCKT14STAT (description="MCUPCKT14STAT", quantity="1")
<i>String1d</i>	MCUPCKT15STAT (description="MCUPCKT15STAT", quantity="1")
<i>String1d</i>	MCURAMINTEGRITY (description="MCURAMINTEGRITY", quantity="1")
<i>String1d</i>	MCURAMTSTPROG (description="MCURAMTSTPROG", quantity="1")
<i>String1d</i>	MCURAMTSTDATA (description="MCURAMTSTDATA", quantity="1")
<i>String1d</i>	MCUPROM2RAMCOPY (description="MCUPROM2RAMCOPY", quantity="1")
<i>String1d</i>	MCUBOOTMODE (description="MCUBOOTMODE", quantity="1")
<i>Int1d</i>	SMECSELECTTAB (description="SMECSELECTTAB", quantity="1")
<i>Int1d</i>	CREC_STEP (description="CREC_STEP", quantity="1")
<i>Int1d</i>	PTC_STAGE (description="PTC_STAGE", quantity="1")
<i>Int1d</i>	SCAL_STAGE (description="SCAL_STAGE", quantity="1")
<i>Int1d</i>	JIGGLE_STEP (description="JIGGLE_STEP", quantity="1")
<i>Int1d</i>	LOSTRPBLOCK (description="LOSTRPBLOCK", quantity="1")
<i>Int1d</i>	LIAFAILCOUNT (description="LIAFAILCOUNT", quantity="1")
<i>Int1d</i>	SCANRES (description="SCANRES", quantity="1")
<i>Int1d</i>	VM_SMECSIG1OFF (description="VM_SMECSIG1OFF", quantity="1")
<i>Int1d</i>	VM_SMECSIG2OFF (description="VM_SMECSIG2OFF", quantity="1")
<i>Int1d</i>	TABLE7_09_LWORD (description="TABLE7_09_LWORD", quantity="1")

<i>StringId</i>	PTC_GET_COMMAND (description="PTC_GET_COMMAND", quantity="1")
<i>StringId</i>	SCAL_GET_COMMAND (description="SCAL_GET_COMMAND", quantity="1")
<i>LongId</i>	TABLE7_12 (description="TABLE7_12", quantity="1")
<i>StringId</i>	HK_MON_STATUS (description="HK_MON_STATUS", quantity="1")
<i>IntId</i>	CHOPJIGG_DCOUPLE (description="CHOPJIGG_DCOUPLE", quantity="1")
<i>IntId</i>	HK_02 (description="HK_02", quantity="1")
<i>IntId</i>	HK_03 (description="HK_03", quantity="1")
<i>IntId</i>	HK_04 (description="HK_04", quantity="1")
<i>IntId</i>	HK_05 (description="HK_05", quantity="1")
<i>IntId</i>	HK_06 (description="HK_06", quantity="1")
<i>IntId</i>	HK_07 (description="HK_07", quantity="1")
<i>IntId</i>	HK_08 (description="HK_08", quantity="1")
<i>IntId</i>	HK_09 (description="HK_09", quantity="1")
<i>IntId</i>	HK_10 (description="HK_10", quantity="1")
<i>IntId</i>	HK_11 (description="HK_11", quantity="1")
<i>IntId</i>	HK_12 (description="HK_12", quantity="1")
<i>IntId</i>	HK_13 (description="HK_13", quantity="1")
<i>IntId</i>	HK_14 (description="HK_14", quantity="1")
<i>IntId</i>	HK_15 (description="HK_15", quantity="1")
<i>IntId</i>	HK_16 (description="HK_16", quantity="1")
<i>IntId</i>	HK_17 (description="HK_17", quantity="1")
<i>IntId</i>	HK_18 (description="HK_18", quantity="1")
<i>IntId</i>	HK_19 (description="HK_19", quantity="1")
<i>IntId</i>	HK_20 (description="HK_20", quantity="1")
<i>IntId</i>	HK_21 (description="HK_21", quantity="1")
<i>IntId</i>	HK_22 (description="HK_22", quantity="1")
<i>IntId</i>	HK_23 (description="HK_23", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.3. SPIRE Product Level 0.5 - Photometer Detector Timeline

<i>product</i> (type="PDT", description="Photometer Detector Timeline")	
<i>Meta-data</i>	

StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
DoubleParameter	biasFreq (description="Bias frequency", quantity="Hz")
StringParameter	elecSide (description="Electronic side", quantity="Hz")
StringParameter	modelName (description="Model name attached to this product", quantity="Hz")
StringParameter	formatVersion (description="Version of product format", quantity="Hz")

StringParameter	missionConfig (description="Mission configuration", quantity="Hz")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	type (description="Product Type Identification", quantity="arcsec/year")
StringParameter	description (description="Name of this product", quantity="arcsec/year")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec/year")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec/year")
StringParameter	signalTable (description="Name of the signal table", quantity="arcsec/year")
LongParameter	maskDead (description="Mask value for dead channel", quantity="arcsec/year")
LongParameter	maskMaster (description="Mask value for master bit", quantity="arcsec/year")
LongParameter	maskNoisy (description="Mask value for noisy channel", quantity="arcsec/year")
LongParameter	maskSlow (description="Mask value for slow channel", quantity="arcsec/year")
BooleanParameter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="arcsec/year")
DoubleParameter	ratioTruncatedPLW (description="Maximum ratio of out of range values to total number of values in PLW data.", quantity="arcsec/year")

DoubleParameter	ratioTruncatedPMW (description="Maximum ratio of out of range values to total number of values in PMW data.", quantity="arcsec/year")
DoubleParameter	ratioTruncatedPSW (description="Maximum ratio of out of range values to total number of values in PSW data.", quantity="arcsec/year")
DoubleParameter	ratioTruncatedPTC (description="Total fraction of out of range values for PTC", quantity="arcsec/year")
LongParameter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="arcsec/year")
LongParameter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="arcsec/year")
LongParameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="arcsec/year")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="arcsec/year")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="arcsec/year")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
BooleanParameter	rcRollApp (description="RC roll correction applied", quantity="ms/min")
DoubleParameter	subkTempDrift (description="Drift measured by the SubK temperature probe", quantity="K")
LongParameter	maskNotChoppedToSky (description="Mask value for channel not chopped to sky", quantity="K")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="K")
DoubleParameter	plwBiasAmpl (description="PLW bias amplitude", quantity="V")
DoubleParameter	pmwBiasAmpl (description="PMW bias amplitude", quantity="V")
DoubleParameter	pswBiasAmpl (description="PSW bias amplitude", quantity="V")
DoubleParameter	ptcBiasAmpl (description="PTC bias amplitude", quantity="V")
DoubleParameter	plwBiasPhase (description="PLW bias phase", quantity="rad")
DoubleParameter	pmwBiasPhase (description="PMW bias phase", quantity="rad")
DoubleParameter	pswBiasPhase (description="PSW bias phase", quantity="rad")
DoubleParameter	ptcBiasPhase (description="PTC bias phase", quantity="rad")
StringParameter	scanSpeed (description="Speed of scan", quantity="rad")

LongParameter	scanLineNum (description="Scan line number", quantity="rad")
LongParameter	numberBadVoltageOffsetPLW (description="Number of PLW bolometers with bad voltage offset resets", quantity="rad")
LongParameter	numberBadVoltageOffsetPMW (description="Number of PMW bolometers with bad voltage offset resets", quantity="rad")
LongParameter	numberBadVoltageOffsetPSW (description="Number of PSW bolometers with bad voltage offset resets", quantity="rad")
Columns	
table dataset	(name="voltage", description="Voltages table")
Metadata	
Columns	
DoubleId	sampleTime (description="Sample time", quantity="TAI")
FloatId	PSWR1 (description="PHOTFARRAY001", quantity="V")
FloatId	PSWD16 (description="PHOTFARRAY002", quantity="V")
FloatId	PSWT1 (description="PHOTFARRAY003", quantity="V")
FloatId	PSWB16 (description="PHOTFARRAY004", quantity="V")
FloatId	PSWC15 (description="PHOTFARRAY005", quantity="V")
FloatId	PSWA15 (description="PHOTFARRAY006", quantity="V")
FloatId	PSWD15 (description="PHOTFARRAY007", quantity="V")
FloatId	PSWB15 (description="PHOTFARRAY008", quantity="V")
FloatId	PSWC14 (description="PHOTFARRAY009", quantity="V")
FloatId	PSWD14 (description="PHOTFARRAY010", quantity="V")
FloatId	PSWA14 (description="PHOTFARRAY011", quantity="V")
FloatId	PSWA13 (description="PHOTFARRAY012", quantity="V")
FloatId	PSWB14 (description="PHOTFARRAY013", quantity="V")
FloatId	PSWC13 (description="PHOTFARRAY014", quantity="V")
FloatId	PSWB13 (description="PHOTFARRAY015", quantity="V")
FloatId	PSWD13 (description="PHOTFARRAY016", quantity="V")
FloatId	PSWA12 (description="PHOTFARRAY017", quantity="V")
FloatId	PSWC12 (description="PHOTFARRAY018", quantity="V")
FloatId	PSWD12 (description="PHOTFARRAY019", quantity="V")
FloatId	PSWB12 (description="PHOTFARRAY020", quantity="V")
FloatId	PSWE11 (description="PHOTFARRAY021", quantity="V")
FloatId	PSWA11 (description="PHOTFARRAY022", quantity="V")
FloatId	PSWC11 (description="PHOTFARRAY023", quantity="V")
FloatId	PSWB11 (description="PHOTFARRAY024", quantity="V")
FloatId	PSWE1 (description="PHOTFARRAY025", quantity="V")
FloatId	PSWF1 (description="PHOTFARRAY026", quantity="V")
FloatId	PSWT2 (description="PHOTFARRAY027", quantity="V")
FloatId	PSWH1 (description="PHOTFARRAY028", quantity="V")
FloatId	PSWG1 (description="PHOTFARRAY029", quantity="V")

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<i>Float1d</i>	PSWH2 (description="PHOTFARRAY031", quantity="V")
<i>Float1d</i>	PSWF2 (description="PHOTFARRAY032", quantity="V")
<i>Float1d</i>	PSWJ2 (description="PHOTFARRAY033", quantity="V")
<i>Float1d</i>	PSWG2 (description="PHOTFARRAY034", quantity="V")
<i>Float1d</i>	PSWH3 (description="PHOTFARRAY035", quantity="V")
<i>Float1d</i>	PSWJ3 (description="PHOTFARRAY036", quantity="V")
<i>Float1d</i>	PSWE2 (description="PHOTFARRAY037", quantity="V")
<i>Float1d</i>	PSWF3 (description="PHOTFARRAY038", quantity="V")
<i>Float1d</i>	PSWG3 (description="PHOTFARRAY039", quantity="V")
<i>Float1d</i>	PSWH4 (description="PHOTFARRAY040", quantity="V")
<i>Float1d</i>	PSWJ4 (description="PHOTFARRAY041", quantity="V")
<i>Float1d</i>	PSWE3 (description="PHOTFARRAY042", quantity="V")
<i>Float1d</i>	PSWF4 (description="PHOTFARRAY043", quantity="V")
<i>Float1d</i>	PSWG4 (description="PHOTFARRAY044", quantity="V")
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<i>Float1d</i>	PSWE4 (description="PHOTFARRAY046", quantity="V")
<i>Float1d</i>	PSWJ5 (description="PHOTFARRAY047", quantity="V")
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<i>Float1d</i>	PSWD6 (description="PHOTFARRAY049", quantity="V")
<i>Float1d</i>	PSWB6 (description="PHOTFARRAY050", quantity="V")
<i>Float1d</i>	PSWC5 (description="PHOTFARRAY051", quantity="V")
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<i>Float1d</i>	PSWE5 (description="PHOTFARRAY053", quantity="V")
<i>Float1d</i>	PSWB5 (description="PHOTFARRAY054", quantity="V")
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<i>Float1d</i>	PSWC4 (description="PHOTFARRAY056", quantity="V")
<i>Float1d</i>	PSWA4 (description="PHOTFARRAY057", quantity="V")
<i>Float1d</i>	PSWD4 (description="PHOTFARRAY058", quantity="V")
<i>Float1d</i>	PSWB4 (description="PHOTFARRAY059", quantity="V")
<i>Float1d</i>	PSWC3 (description="PHOTFARRAY060", quantity="V")
<i>Float1d</i>	PSWB3 (description="PHOTFARRAY061", quantity="V")
<i>Float1d</i>	PSWA3 (description="PHOTFARRAY062", quantity="V")
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<i>Float1d</i>	PSWC2 (description="PHOTFARRAY065", quantity="V")
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<i>FloatId</i>	PSWJ11 (description="PHOTFARRAY074", quantity="V")
<i>FloatId</i>	PSWE12 (description="PHOTFARRAY075", quantity="V")
<i>FloatId</i>	PSWH12 (description="PHOTFARRAY076", quantity="V")
<i>FloatId</i>	PSWG12 (description="PHOTFARRAY077", quantity="V")
<i>FloatId</i>	PSWF13 (description="PHOTFARRAY078", quantity="V")
<i>FloatId</i>	PSWE13 (description="PHOTFARRAY079", quantity="V")
<i>FloatId</i>	PSWJ12 (description="PHOTFARRAY080", quantity="V")
<i>FloatId</i>	PSWH13 (description="PHOTFARRAY081", quantity="V")
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<i>FloatId</i>	PSWE14 (description="PHOTFARRAY084", quantity="V")
<i>FloatId</i>	PSWJ13 (description="PHOTFARRAY085", quantity="V")
<i>FloatId</i>	PSWH14 (description="PHOTFARRAY086", quantity="V")
<i>FloatId</i>	PSWG14 (description="PHOTFARRAY087", quantity="V")
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<i>FloatId</i>	PSWF15 (description="PHOTFARRAY089", quantity="V")
<i>FloatId</i>	PSWH15 (description="PHOTFARRAY090", quantity="V")
<i>FloatId</i>	PSWJ15 (description="PHOTFARRAY091", quantity="V")
<i>FloatId</i>	PSWG15 (description="PHOTFARRAY092", quantity="V")
<i>FloatId</i>	PSWH16 (description="PHOTFARRAY093", quantity="V")
<i>FloatId</i>	PSWDP2 (description="PHOTFARRAY094", quantity="V")
<i>FloatId</i>	PSWF16 (description="PHOTFARRAY095", quantity="V")
<i>FloatId</i>	PSWE15 (description="PHOTFARRAY096", quantity="V")
<i>FloatId</i>	PSWD11 (description="PHOTFARRAY097", quantity="V")
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<i>FloatId</i>	PSWC10 (description="PHOTFARRAY100", quantity="V")
<i>FloatId</i>	PSWB10 (description="PHOTFARRAY101", quantity="V")
<i>FloatId</i>	PSWD10 (description="PHOTFARRAY102", quantity="V")
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<i>FloatId</i>	PSWC9 (description="PHOTFARRAY105", quantity="V")
<i>FloatId</i>	PSWB9 (description="PHOTFARRAY106", quantity="V")
<i>FloatId</i>	PSWD9 (description="PHOTFARRAY107", quantity="V")
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<i>FloatId</i>	PSWD8 (description="PHOTFARRAY111", quantity="V")
<i>FloatId</i>	PSWB8 (description="PHOTFARRAY112", quantity="V")
<i>FloatId</i>	PSWC7 (description="PHOTFARRAY113", quantity="V")

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<i>FloatId</i>	PSWA7 (description="PHOTFARRAY115", quantity="V")
<i>FloatId</i>	PSWD7 (description="PHOTFARRAY116", quantity="V")
<i>FloatId</i>	PSWB7 (description="PHOTFARRAY117", quantity="V")
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<i>FloatId</i>	PSWE6 (description="PHOTFARRAY119", quantity="V")
<i>FloatId</i>	PSWA6 (description="PHOTFARRAY120", quantity="V")
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<i>FloatId</i>	PSWJ6 (description="PHOTFARRAY123", quantity="V")
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<i>FloatId</i>	PSWH7 (description="PHOTFARRAY126", quantity="V")
<i>FloatId</i>	PSWF7 (description="PHOTFARRAY127", quantity="V")
<i>FloatId</i>	PSWJ7 (description="PHOTFARRAY128", quantity="V")
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<i>FloatId</i>	PSWJ9 (description="PHOTFARRAY137", quantity="V")
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<i>FloatId</i>	PSWJ10 (description="PHOTFARRAY142", quantity="V")
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<i>FloatId</i>	PSWG11 (description="PHOTFARRAY144", quantity="V")
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<i>FloatId</i>	PLWA8 (description="PHOTFARRAY146", quantity="V")
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<i>FloatId</i>	PLWA6 (description="PHOTFARRAY148", quantity="V")
<i>FloatId</i>	PLWA9 (description="PHOTFARRAY149", quantity="V")
<i>FloatId</i>	PLWC9 (description="PHOTFARRAY150", quantity="V")
<i>FloatId</i>	PLWB8 (description="PHOTFARRAY151", quantity="V")
<i>FloatId</i>	PLWB7 (description="PHOTFARRAY152", quantity="V")
<i>FloatId</i>	PLWC7 (description="PHOTFARRAY153", quantity="V")
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<i>FloatId</i>	PLWB6 (description="PHOTFARRAY155", quantity="V")

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<i>FloatId</i>	PLWB4 (description="PHOTFARRAY158", quantity="V")
<i>FloatId</i>	PLWC4 (description="PHOTFARRAY159", quantity="V")
<i>FloatId</i>	PLWB3 (description="PHOTFARRAY160", quantity="V")
<i>FloatId</i>	PLWC2 (description="PHOTFARRAY161", quantity="V")
<i>FloatId</i>	PLWB2 (description="PHOTFARRAY162", quantity="V")
<i>FloatId</i>	PLWB1 (description="PHOTFARRAY163", quantity="V")
<i>FloatId</i>	PLWA3 (description="PHOTFARRAY164", quantity="V")
<i>FloatId</i>	PLWA4 (description="PHOTFARRAY165", quantity="V")
<i>FloatId</i>	PLWA1 (description="PHOTFARRAY166", quantity="V")
<i>FloatId</i>	PLWDP1 (description="PHOTFARRAY167", quantity="V")
<i>FloatId</i>	PLWA2 (description="PHOTFARRAY168", quantity="V")
<i>FloatId</i>	PLWE1 (description="PHOTFARRAY169", quantity="V")
<i>FloatId</i>	PLWE2 (description="PHOTFARRAY170", quantity="V")
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<i>FloatId</i>	PLWD1 (description="PHOTFARRAY173", quantity="V")
<i>FloatId</i>	PLWD2 (description="PHOTFARRAY174", quantity="V")
<i>FloatId</i>	PLWD3 (description="PHOTFARRAY175", quantity="V")
<i>FloatId</i>	PLWD4 (description="PHOTFARRAY176", quantity="V")
<i>FloatId</i>	PLWC1 (description="PHOTFARRAY177", quantity="V")
<i>FloatId</i>	PLWC3 (description="PHOTFARRAY178", quantity="V")
<i>FloatId</i>	PLWC5 (description="PHOTFARRAY179", quantity="V")
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<i>FloatId</i>	PLWC8 (description="PHOTFARRAY183", quantity="V")
<i>FloatId</i>	PLWD5 (description="PHOTFARRAY184", quantity="V")
<i>FloatId</i>	PLWD6 (description="PHOTFARRAY185", quantity="V")
<i>FloatId</i>	PLWD7 (description="PHOTFARRAY186", quantity="V")
<i>FloatId</i>	PLWD8 (description="PHOTFARRAY187", quantity="V")
<i>FloatId</i>	PLWE7 (description="PHOTFARRAY188", quantity="V")
<i>FloatId</i>	PLWE6 (description="PHOTFARRAY189", quantity="V")
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<i>FloatId</i>	PLWDP2 (description="PHOTFARRAY191", quantity="V")
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<i>FloatId</i>	PMWB12 (description="PHOTFARRAY195", quantity="V")
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<i>FloatId</i>	PMWA12 (description="PHOTFARRAY197", quantity="V")

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<i>FloatId</i>	PMWA10 (description="PHOTFARRAY206", quantity="V")
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<i>FloatId</i>	PMWB9 (description="PHOTFARRAY208", quantity="V")
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<i>FloatId</i>	PMWC9 (description="PHOTFARRAY210", quantity="V")
<i>FloatId</i>	PMWA9 (description="PHOTFARRAY211", quantity="V")
<i>FloatId</i>	PMWB8 (description="PHOTFARRAY212", quantity="V")
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<i>FloatId</i>	PMWB7 (description="PHOTFARRAY216", quantity="V")
<i>FloatId</i>	PMWR1 (description="PHOTFARRAY217", quantity="V")
<i>FloatId</i>	PMWG1 (description="PHOTFARRAY218", quantity="V")
<i>FloatId</i>	PMWT2 (description="PHOTFARRAY219", quantity="V")
<i>FloatId</i>	PMWE1 (description="PHOTFARRAY220", quantity="V")
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<i>FloatId</i>	PMWF1 (description="PHOTFARRAY222", quantity="V")
<i>FloatId</i>	PMWE2 (description="PHOTFARRAY223", quantity="V")
<i>FloatId</i>	PMWG2 (description="PHOTFARRAY224", quantity="V")
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<i>FloatId</i>	PMWG3 (description="PHOTFARRAY226", quantity="V")
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<i>FloatId</i>	PMWF4 (description="PHOTFARRAY232", quantity="V")
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<i>FloatId</i>	PMWD5 (description="PHOTFARRAY234", quantity="V")
<i>FloatId</i>	PMWF5 (description="PHOTFARRAY235", quantity="V")
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<i>Float1d</i>	PMWF12 (description="PHOTFARRAY247", quantity="V")
<i>Float1d</i>	PMWG13 (description="PHOTFARRAY248", quantity="V")
<i>Float1d</i>	PMWDP2 (description="PHOTFARRAY249", quantity="V")
<i>Float1d</i>	PMWE7 (description="PHOTFARRAY250", quantity="V")
<i>Float1d</i>	PMWD7 (description="PHOTFARRAY251", quantity="V")
<i>Float1d</i>	PMWF7 (description="PHOTFARRAY252", quantity="V")
<i>Float1d</i>	PMWE8 (description="PHOTFARRAY253", quantity="V")
<i>Float1d</i>	PMWG8 (description="PHOTFARRAY254", quantity="V")
<i>Float1d</i>	PMWF8 (description="PHOTFARRAY255", quantity="V")
<i>Float1d</i>	PMWE9 (description="PHOTFARRAY256", quantity="V")
<i>Float1d</i>	PMWG9 (description="PHOTFARRAY257", quantity="V")
<i>Float1d</i>	PMWD9 (description="PHOTFARRAY258", quantity="V")
<i>Float1d</i>	PMWF9 (description="PHOTFARRAY259", quantity="V")
<i>Float1d</i>	PMWE10 (description="PHOTFARRAY260", quantity="V")
<i>Float1d</i>	PMWG10 (description="PHOTFARRAY261", quantity="V")
<i>Float1d</i>	PMWC4 (description="PHOTFARRAY262", quantity="V")
<i>Float1d</i>	PMWB3 (description="PHOTFARRAY263", quantity="V")
<i>Float1d</i>	PMWC3 (description="PHOTFARRAY264", quantity="V")
<i>Float1d</i>	PMWB2 (description="PHOTFARRAY265", quantity="V")
<i>Float1d</i>	PMWD2 (description="PHOTFARRAY266", quantity="V")
<i>Float1d</i>	PMWA3 (description="PHOTFARRAY267", quantity="V")
<i>Float1d</i>	PMWA2 (description="PHOTFARRAY268", quantity="V")
<i>Float1d</i>	PMWC2 (description="PHOTFARRAY269", quantity="V")
<i>Float1d</i>	PMWB1 (description="PHOTFARRAY270", quantity="V")
<i>Float1d</i>	PMWA1 (description="PHOTFARRAY271", quantity="V")
<i>Float1d</i>	PMWDP1 (description="PHOTFARRAY272", quantity="V")
<i>Float1d</i>	PMWC1 (description="PHOTFARRAY273", quantity="V")
<i>Float1d</i>	PMWA7 (description="PHOTFARRAY274", quantity="V")
<i>Float1d</i>	PMWA6 (description="PHOTFARRAY275", quantity="V")
<i>Float1d</i>	PMWB6 (description="PHOTFARRAY276", quantity="V")
<i>Float1d</i>	PMWC7 (description="PHOTFARRAY277", quantity="V")
<i>Float1d</i>	PMWA5 (description="PHOTFARRAY278", quantity="V")
<i>Float1d</i>	PMWB5 (description="PHOTFARRAY279", quantity="V")
<i>Float1d</i>	PMWC6 (description="PHOTFARRAY280", quantity="V")
<i>Float1d</i>	PMWD6 (description="PHOTFARRAY281", quantity="V")

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<i>FloatId</i>	PMWC5 (description="PHOTFARRAY283", quantity="V")
<i>FloatId</i>	PMWD4 (description="PHOTFARRAY284", quantity="V")
<i>FloatId</i>	PMWA4 (description="PHOTFARRAY285", quantity="V")
<i>FloatId</i>	PTCP1 (description="PHOTFARRAY286", quantity="V")
<i>FloatId</i>	PTCP2 (description="PHOTFARRAY287", quantity="V")
<i>FloatId</i>	PTCP3 (description="PHOTFARRAY288", quantity="V")
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<i>table dataset</i>	Dataset similar to the one above with (name="resistance", description="Resistances table")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="quality", description="Quality control metric quantities")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="temperature", description="Temperature")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.4. SPIRE Product Level 0.5 - Photometer Offset Timeline

<i>product (type="POT", description="Photometer Offset Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")

StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	type (description="Product Type Identification", quantity="arcsec/year")
StringParameter	description (description="Name of this product", quantity="arcsec/year")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec/year")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec/year")
LongParameter	maskMaster (description="Mask value for master bit", quantity="arcsec/year")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="arcsec/year")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="arcsec/year")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="ms/min")
StringParameter	scanSpeed (description="Speed of scan", quantity="ms/min")
<i>Columns</i>	
<i>table dataset</i>	(name="signal", description="Signal timelines")
<i>Metadata</i>	

<i>Columns</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>IntId</i>	PSWR1 (description="PHOTOFF001", quantity="1")
<i>IntId</i>	PSWD16 (description="PHOTOFF002", quantity="1")
<i>IntId</i>	PSWT1 (description="PHOTOFF003", quantity="1")
<i>IntId</i>	PSWB16 (description="PHOTOFF004", quantity="1")
<i>IntId</i>	PSWC15 (description="PHOTOFF005", quantity="1")
<i>IntId</i>	PSWA15 (description="PHOTOFF006", quantity="1")
<i>IntId</i>	PSWD15 (description="PHOTOFF007", quantity="1")
<i>IntId</i>	PSWB15 (description="PHOTOFF008", quantity="1")
<i>IntId</i>	PSWC14 (description="PHOTOFF009", quantity="1")
<i>IntId</i>	PSWD14 (description="PHOTOFF010", quantity="1")
<i>IntId</i>	PSWA14 (description="PHOTOFF011", quantity="1")
<i>IntId</i>	PSWA13 (description="PHOTOFF012", quantity="1")
<i>IntId</i>	PSWB14 (description="PHOTOFF013", quantity="1")
<i>IntId</i>	PSWC13 (description="PHOTOFF014", quantity="1")
<i>IntId</i>	PSWB13 (description="PHOTOFF015", quantity="1")
<i>IntId</i>	PSWD13 (description="PHOTOFF016", quantity="1")
<i>IntId</i>	PSWA12 (description="PHOTOFF017", quantity="1")
<i>IntId</i>	PSWC12 (description="PHOTOFF018", quantity="1")
<i>IntId</i>	PSWD12 (description="PHOTOFF019", quantity="1")
<i>IntId</i>	PSWB12 (description="PHOTOFF020", quantity="1")
<i>IntId</i>	PSWE11 (description="PHOTOFF021", quantity="1")
<i>IntId</i>	PSWA11 (description="PHOTOFF022", quantity="1")
<i>IntId</i>	PSWC11 (description="PHOTOFF023", quantity="1")
<i>IntId</i>	PSWB11 (description="PHOTOFF024", quantity="1")
<i>IntId</i>	PSWE1 (description="PHOTOFF025", quantity="1")
<i>IntId</i>	PSWF1 (description="PHOTOFF026", quantity="1")
<i>IntId</i>	PSWT2 (description="PHOTOFF027", quantity="1")
<i>IntId</i>	PSWH1 (description="PHOTOFF028", quantity="1")
<i>IntId</i>	PSWG1 (description="PHOTOFF029", quantity="1")
<i>IntId</i>	PSWJ1 (description="PHOTOFF030", quantity="1")
<i>IntId</i>	PSWH2 (description="PHOTOFF031", quantity="1")
<i>IntId</i>	PSWF2 (description="PHOTOFF032", quantity="1")
<i>IntId</i>	PSWJ2 (description="PHOTOFF033", quantity="1")
<i>IntId</i>	PSWG2 (description="PHOTOFF034", quantity="1")
<i>IntId</i>	PSWH3 (description="PHOTOFF035", quantity="1")
<i>IntId</i>	PSWJ3 (description="PHOTOFF036", quantity="1")
<i>IntId</i>	PSWE2 (description="PHOTOFF037", quantity="1")
<i>IntId</i>	PSWF3 (description="PHOTOFF038", quantity="1")
<i>IntId</i>	PSWG3 (description="PHOTOFF039", quantity="1")
<i>IntId</i>	PSWH4 (description="PHOTOFF040", quantity="1")

<i>Int1d</i>	PSWJ4 (description="PHOTOFF041", quantity="1")
<i>Int1d</i>	PSWE3 (description="PHOTOFF042", quantity="1")
<i>Int1d</i>	PSWF4 (description="PHOTOFF043", quantity="1")
<i>Int1d</i>	PSWG4 (description="PHOTOFF044", quantity="1")
<i>Int1d</i>	PSWH5 (description="PHOTOFF045", quantity="1")
<i>Int1d</i>	PSWE4 (description="PHOTOFF046", quantity="1")
<i>Int1d</i>	PSWJ5 (description="PHOTOFF047", quantity="1")
<i>Int1d</i>	PSWF5 (description="PHOTOFF048", quantity="1")
<i>Int1d</i>	PSWD6 (description="PHOTOFF049", quantity="1")
<i>Int1d</i>	PSWB6 (description="PHOTOFF050", quantity="1")
<i>Int1d</i>	PSWC5 (description="PHOTOFF051", quantity="1")
<i>Int1d</i>	PSWA5 (description="PHOTOFF052", quantity="1")
<i>Int1d</i>	PSWE5 (description="PHOTOFF053", quantity="1")
<i>Int1d</i>	PSWB5 (description="PHOTOFF054", quantity="1")
<i>Int1d</i>	PSWD5 (description="PHOTOFF055", quantity="1")
<i>Int1d</i>	PSWC4 (description="PHOTOFF056", quantity="1")
<i>Int1d</i>	PSWA4 (description="PHOTOFF057", quantity="1")
<i>Int1d</i>	PSWD4 (description="PHOTOFF058", quantity="1")
<i>Int1d</i>	PSWB4 (description="PHOTOFF059", quantity="1")
<i>Int1d</i>	PSWC3 (description="PHOTOFF060", quantity="1")
<i>Int1d</i>	PSWB3 (description="PHOTOFF061", quantity="1")
<i>Int1d</i>	PSWA3 (description="PHOTOFF062", quantity="1")
<i>Int1d</i>	PSWA2 (description="PHOTOFF063", quantity="1")
<i>Int1d</i>	PSWD3 (description="PHOTOFF064", quantity="1")
<i>Int1d</i>	PSWC2 (description="PHOTOFF065", quantity="1")
<i>Int1d</i>	PSWB2 (description="PHOTOFF066", quantity="1")
<i>Int1d</i>	PSWD2 (description="PHOTOFF067", quantity="1")
<i>Int1d</i>	PSWA1 (description="PHOTOFF068", quantity="1")
<i>Int1d</i>	PSWC1 (description="PHOTOFF069", quantity="1")
<i>Int1d</i>	PSWB1 (description="PHOTOFF070", quantity="1")
<i>Int1d</i>	PSWDP1 (description="PHOTOFF071", quantity="1")
<i>Int1d</i>	PSWD1 (description="PHOTOFF072", quantity="1")
<i>Int1d</i>	PSWF12 (description="PHOTOFF073", quantity="1")
<i>Int1d</i>	PSWJ11 (description="PHOTOFF074", quantity="1")
<i>Int1d</i>	PSWE12 (description="PHOTOFF075", quantity="1")
<i>Int1d</i>	PSWH12 (description="PHOTOFF076", quantity="1")
<i>Int1d</i>	PSWG12 (description="PHOTOFF077", quantity="1")
<i>Int1d</i>	PSWF13 (description="PHOTOFF078", quantity="1")
<i>Int1d</i>	PSWE13 (description="PHOTOFF079", quantity="1")
<i>Int1d</i>	PSWJ12 (description="PHOTOFF080", quantity="1")
<i>Int1d</i>	PSWH13 (description="PHOTOFF081", quantity="1")
<i>Int1d</i>	PSWG13 (description="PHOTOFF082", quantity="1")

<i>Int1d</i>	PSWF14 (description="PHOTOFF083", quantity="1")
<i>Int1d</i>	PSWE14 (description="PHOTOFF084", quantity="1")
<i>Int1d</i>	PSWJ13 (description="PHOTOFF085", quantity="1")
<i>Int1d</i>	PSWH14 (description="PHOTOFF086", quantity="1")
<i>Int1d</i>	PSWG14 (description="PHOTOFF087", quantity="1")
<i>Int1d</i>	PSWJ14 (description="PHOTOFF088", quantity="1")
<i>Int1d</i>	PSWF15 (description="PHOTOFF089", quantity="1")
<i>Int1d</i>	PSWH15 (description="PHOTOFF090", quantity="1")
<i>Int1d</i>	PSWJ15 (description="PHOTOFF091", quantity="1")
<i>Int1d</i>	PSWG15 (description="PHOTOFF092", quantity="1")
<i>Int1d</i>	PSWH16 (description="PHOTOFF093", quantity="1")
<i>Int1d</i>	PSWDP2 (description="PHOTOFF094", quantity="1")
<i>Int1d</i>	PSWF16 (description="PHOTOFF095", quantity="1")
<i>Int1d</i>	PSWE15 (description="PHOTOFF096", quantity="1")
<i>Int1d</i>	PSWD11 (description="PHOTOFF097", quantity="1")
<i>Int1d</i>	PSWA10 (description="PHOTOFF098", quantity="1")
<i>Int1d</i>	PSWE10 (description="PHOTOFF099", quantity="1")
<i>Int1d</i>	PSWC10 (description="PHOTOFF100", quantity="1")
<i>Int1d</i>	PSWB10 (description="PHOTOFF101", quantity="1")
<i>Int1d</i>	PSWD10 (description="PHOTOFF102", quantity="1")
<i>Int1d</i>	PSWA9 (description="PHOTOFF103", quantity="1")
<i>Int1d</i>	PSWE9 (description="PHOTOFF104", quantity="1")
<i>Int1d</i>	PSWC9 (description="PHOTOFF105", quantity="1")
<i>Int1d</i>	PSWB9 (description="PHOTOFF106", quantity="1")
<i>Int1d</i>	PSWD9 (description="PHOTOFF107", quantity="1")
<i>Int1d</i>	PSWA8 (description="PHOTOFF108", quantity="1")
<i>Int1d</i>	PSWC8 (description="PHOTOFF109", quantity="1")
<i>Int1d</i>	PSWE8 (description="PHOTOFF110", quantity="1")
<i>Int1d</i>	PSWD8 (description="PHOTOFF111", quantity="1")
<i>Int1d</i>	PSWB8 (description="PHOTOFF112", quantity="1")
<i>Int1d</i>	PSWC7 (description="PHOTOFF113", quantity="1")
<i>Int1d</i>	PSWE7 (description="PHOTOFF114", quantity="1")
<i>Int1d</i>	PSWA7 (description="PHOTOFF115", quantity="1")
<i>Int1d</i>	PSWD7 (description="PHOTOFF116", quantity="1")
<i>Int1d</i>	PSWB7 (description="PHOTOFF117", quantity="1")
<i>Int1d</i>	PSWC6 (description="PHOTOFF118", quantity="1")
<i>Int1d</i>	PSWE6 (description="PHOTOFF119", quantity="1")
<i>Int1d</i>	PSWA6 (description="PHOTOFF120", quantity="1")
<i>Int1d</i>	PSWG5 (description="PHOTOFF121", quantity="1")
<i>Int1d</i>	PSWH6 (description="PHOTOFF122", quantity="1")
<i>Int1d</i>	PSWJ6 (description="PHOTOFF123", quantity="1")
<i>Int1d</i>	PSWF6 (description="PHOTOFF124", quantity="1")

<i>Int1d</i>	PSWG6 (description="PHOTOFF125", quantity="1")
<i>Int1d</i>	PSWH7 (description="PHOTOFF126", quantity="1")
<i>Int1d</i>	PSWF7 (description="PHOTOFF127", quantity="1")
<i>Int1d</i>	PSWJ7 (description="PHOTOFF128", quantity="1")
<i>Int1d</i>	PSWG7 (description="PHOTOFF129", quantity="1")
<i>Int1d</i>	PSWH8 (description="PHOTOFF130", quantity="1")
<i>Int1d</i>	PSWF8 (description="PHOTOFF131", quantity="1")
<i>Int1d</i>	PSWG8 (description="PHOTOFF132", quantity="1")
<i>Int1d</i>	PSWJ8 (description="PHOTOFF133", quantity="1")
<i>Int1d</i>	PSWF9 (description="PHOTOFF134", quantity="1")
<i>Int1d</i>	PSWH9 (description="PHOTOFF135", quantity="1")
<i>Int1d</i>	PSWG9 (description="PHOTOFF136", quantity="1")
<i>Int1d</i>	PSWJ9 (description="PHOTOFF137", quantity="1")
<i>Int1d</i>	PSWF10 (description="PHOTOFF138", quantity="1")
<i>Int1d</i>	PSWH10 (description="PHOTOFF139", quantity="1")
<i>Int1d</i>	PSWG10 (description="PHOTOFF140", quantity="1")
<i>Int1d</i>	PSWF11 (description="PHOTOFF141", quantity="1")
<i>Int1d</i>	PSWJ10 (description="PHOTOFF142", quantity="1")
<i>Int1d</i>	PSWH11 (description="PHOTOFF143", quantity="1")
<i>Int1d</i>	PSWG11 (description="PHOTOFF144", quantity="1")
<i>Int1d</i>	PLWR1 (description="PHOTOFF145", quantity="1")
<i>Int1d</i>	PLWA8 (description="PHOTOFF146", quantity="1")
<i>Int1d</i>	PLWA7 (description="PHOTOFF147", quantity="1")
<i>Int1d</i>	PLWA6 (description="PHOTOFF148", quantity="1")
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<i>Int1d</i>	PLWC9 (description="PHOTOFF150", quantity="1")
<i>Int1d</i>	PLWB8 (description="PHOTOFF151", quantity="1")
<i>Int1d</i>	PLWB7 (description="PHOTOFF152", quantity="1")
<i>Int1d</i>	PLWC7 (description="PHOTOFF153", quantity="1")
<i>Int1d</i>	PLWB5 (description="PHOTOFF154", quantity="1")
<i>Int1d</i>	PLWB6 (description="PHOTOFF155", quantity="1")
<i>Int1d</i>	PLWA5 (description="PHOTOFF156", quantity="1")
<i>Int1d</i>	PLWT1 (description="PHOTOFF157", quantity="1")
<i>Int1d</i>	PLWB4 (description="PHOTOFF158", quantity="1")
<i>Int1d</i>	PLWC4 (description="PHOTOFF159", quantity="1")
<i>Int1d</i>	PLWB3 (description="PHOTOFF160", quantity="1")
<i>Int1d</i>	PLWC2 (description="PHOTOFF161", quantity="1")
<i>Int1d</i>	PLWB2 (description="PHOTOFF162", quantity="1")
<i>Int1d</i>	PLWB1 (description="PHOTOFF163", quantity="1")
<i>Int1d</i>	PLWA3 (description="PHOTOFF164", quantity="1")
<i>Int1d</i>	PLWA4 (description="PHOTOFF165", quantity="1")
<i>Int1d</i>	PLWA1 (description="PHOTOFF166", quantity="1")

<i>Int1d</i>	PLWDP1 (description="PHOTOFF167", quantity="1")
<i>Int1d</i>	PLWA2 (description="PHOTOFF168", quantity="1")
<i>Int1d</i>	PLWE1 (description="PHOTOFF169", quantity="1")
<i>Int1d</i>	PLWE2 (description="PHOTOFF170", quantity="1")
<i>Int1d</i>	PLWE3 (description="PHOTOFF171", quantity="1")
<i>Int1d</i>	PLWE4 (description="PHOTOFF172", quantity="1")
<i>Int1d</i>	PLWD1 (description="PHOTOFF173", quantity="1")
<i>Int1d</i>	PLWD2 (description="PHOTOFF174", quantity="1")
<i>Int1d</i>	PLWD3 (description="PHOTOFF175", quantity="1")
<i>Int1d</i>	PLWD4 (description="PHOTOFF176", quantity="1")
<i>Int1d</i>	PLWC1 (description="PHOTOFF177", quantity="1")
<i>Int1d</i>	PLWC3 (description="PHOTOFF178", quantity="1")
<i>Int1d</i>	PLWC5 (description="PHOTOFF179", quantity="1")
<i>Int1d</i>	PLWT2 (description="PHOTOFF180", quantity="1")
<i>Int1d</i>	PLWE5 (description="PHOTOFF181", quantity="1")
<i>Int1d</i>	PLWC6 (description="PHOTOFF182", quantity="1")
<i>Int1d</i>	PLWC8 (description="PHOTOFF183", quantity="1")
<i>Int1d</i>	PLWD5 (description="PHOTOFF184", quantity="1")
<i>Int1d</i>	PLWD6 (description="PHOTOFF185", quantity="1")
<i>Int1d</i>	PLWD7 (description="PHOTOFF186", quantity="1")
<i>Int1d</i>	PLWD8 (description="PHOTOFF187", quantity="1")
<i>Int1d</i>	PLWE7 (description="PHOTOFF188", quantity="1")
<i>Int1d</i>	PLWE6 (description="PHOTOFF189", quantity="1")
<i>Int1d</i>	PLWE8 (description="PHOTOFF190", quantity="1")
<i>Int1d</i>	PLWDP2 (description="PHOTOFF191", quantity="1")
<i>Int1d</i>	PLWE9 (description="PHOTOFF192", quantity="1")
<i>Int1d</i>	PMWA13 (description="PHOTOFF193", quantity="1")
<i>Int1d</i>	PMWT1 (description="PHOTOFF194", quantity="1")
<i>Int1d</i>	PMWB12 (description="PHOTOFF195", quantity="1")
<i>Int1d</i>	PMWC13 (description="PHOTOFF196", quantity="1")
<i>Int1d</i>	PMWA12 (description="PHOTOFF197", quantity="1")
<i>Int1d</i>	PMWD12 (description="PHOTOFF198", quantity="1")
<i>Int1d</i>	PMWC12 (description="PHOTOFF199", quantity="1")
<i>Int1d</i>	PMWB11 (description="PHOTOFF200", quantity="1")
<i>Int1d</i>	PMWA11 (description="PHOTOFF201", quantity="1")
<i>Int1d</i>	PMWE13 (description="PHOTOFF202", quantity="1")
<i>Int1d</i>	PMWD11 (description="PHOTOFF203", quantity="1")
<i>Int1d</i>	PMWC11 (description="PHOTOFF204", quantity="1")
<i>Int1d</i>	PMWB10 (description="PHOTOFF205", quantity="1")
<i>Int1d</i>	PMWA10 (description="PHOTOFF206", quantity="1")
<i>Int1d</i>	PMWD10 (description="PHOTOFF207", quantity="1")
<i>Int1d</i>	PMWB9 (description="PHOTOFF208", quantity="1")

<i>Int1d</i>	PMWC10 (description="PHOTOFF209", quantity="1")
<i>Int1d</i>	PMWC9 (description="PHOTOFF210", quantity="1")
<i>Int1d</i>	PMWA9 (description="PHOTOFF211", quantity="1")
<i>Int1d</i>	PMWB8 (description="PHOTOFF212", quantity="1")
<i>Int1d</i>	PMWA8 (description="PHOTOFF213", quantity="1")
<i>Int1d</i>	PMWD8 (description="PHOTOFF214", quantity="1")
<i>Int1d</i>	PMWC8 (description="PHOTOFF215", quantity="1")
<i>Int1d</i>	PMWB7 (description="PHOTOFF216", quantity="1")
<i>Int1d</i>	PMWR1 (description="PHOTOFF217", quantity="1")
<i>Int1d</i>	PMWG1 (description="PHOTOFF218", quantity="1")
<i>Int1d</i>	PMWT2 (description="PHOTOFF219", quantity="1")
<i>Int1d</i>	PMWE1 (description="PHOTOFF220", quantity="1")
<i>Int1d</i>	PMWD1 (description="PHOTOFF221", quantity="1")
<i>Int1d</i>	PMWF1 (description="PHOTOFF222", quantity="1")
<i>Int1d</i>	PMWE2 (description="PHOTOFF223", quantity="1")
<i>Int1d</i>	PMWG2 (description="PHOTOFF224", quantity="1")
<i>Int1d</i>	PMWF2 (description="PHOTOFF225", quantity="1")
<i>Int1d</i>	PMWG3 (description="PHOTOFF226", quantity="1")
<i>Int1d</i>	PMWE3 (description="PHOTOFF227", quantity="1")
<i>Int1d</i>	PMWD3 (description="PHOTOFF228", quantity="1")
<i>Int1d</i>	PMWF3 (description="PHOTOFF229", quantity="1")
<i>Int1d</i>	PMWG4 (description="PHOTOFF230", quantity="1")
<i>Int1d</i>	PMWE4 (description="PHOTOFF231", quantity="1")
<i>Int1d</i>	PMWF4 (description="PHOTOFF232", quantity="1")
<i>Int1d</i>	PMWE5 (description="PHOTOFF233", quantity="1")
<i>Int1d</i>	PMWD5 (description="PHOTOFF234", quantity="1")
<i>Int1d</i>	PMWF5 (description="PHOTOFF235", quantity="1")
<i>Int1d</i>	PMWG5 (description="PHOTOFF236", quantity="1")
<i>Int1d</i>	PMWE6 (description="PHOTOFF237", quantity="1")
<i>Int1d</i>	PMWG6 (description="PHOTOFF238", quantity="1")
<i>Int1d</i>	PMWF6 (description="PHOTOFF239", quantity="1")
<i>Int1d</i>	PMWG7 (description="PHOTOFF240", quantity="1")
<i>Int1d</i>	PMWF10 (description="PHOTOFF241", quantity="1")
<i>Int1d</i>	PMWE11 (description="PHOTOFF242", quantity="1")
<i>Int1d</i>	PMWG11 (description="PHOTOFF243", quantity="1")
<i>Int1d</i>	PMWF11 (description="PHOTOFF244", quantity="1")
<i>Int1d</i>	PMWE12 (description="PHOTOFF245", quantity="1")
<i>Int1d</i>	PMWG12 (description="PHOTOFF246", quantity="1")
<i>Int1d</i>	PMWF12 (description="PHOTOFF247", quantity="1")
<i>Int1d</i>	PMWG13 (description="PHOTOFF248", quantity="1")
<i>Int1d</i>	PMWDP2 (description="PHOTOFF249", quantity="1")
<i>Int1d</i>	PMWE7 (description="PHOTOFF250", quantity="1")

<i>Int1d</i>	PMWD7 (description="PHOTOFF251", quantity="1")
<i>Int1d</i>	PMWF7 (description="PHOTOFF252", quantity="1")
<i>Int1d</i>	PMWE8 (description="PHOTOFF253", quantity="1")
<i>Int1d</i>	PMWG8 (description="PHOTOFF254", quantity="1")
<i>Int1d</i>	PMWF8 (description="PHOTOFF255", quantity="1")
<i>Int1d</i>	PMWE9 (description="PHOTOFF256", quantity="1")
<i>Int1d</i>	PMWG9 (description="PHOTOFF257", quantity="1")
<i>Int1d</i>	PMWD9 (description="PHOTOFF258", quantity="1")
<i>Int1d</i>	PMWF9 (description="PHOTOFF259", quantity="1")
<i>Int1d</i>	PMWE10 (description="PHOTOFF260", quantity="1")
<i>Int1d</i>	PMWG10 (description="PHOTOFF261", quantity="1")
<i>Int1d</i>	PMWC4 (description="PHOTOFF262", quantity="1")
<i>Int1d</i>	PMWB3 (description="PHOTOFF263", quantity="1")
<i>Int1d</i>	PMWC3 (description="PHOTOFF264", quantity="1")
<i>Int1d</i>	PMWB2 (description="PHOTOFF265", quantity="1")
<i>Int1d</i>	PMWD2 (description="PHOTOFF266", quantity="1")
<i>Int1d</i>	PMWA3 (description="PHOTOFF267", quantity="1")
<i>Int1d</i>	PMWA2 (description="PHOTOFF268", quantity="1")
<i>Int1d</i>	PMWC2 (description="PHOTOFF269", quantity="1")
<i>Int1d</i>	PMWB1 (description="PHOTOFF270", quantity="1")
<i>Int1d</i>	PMWA1 (description="PHOTOFF271", quantity="1")
<i>Int1d</i>	PMWDP1 (description="PHOTOFF272", quantity="1")
<i>Int1d</i>	PMWC1 (description="PHOTOFF273", quantity="1")
<i>Int1d</i>	PMWA7 (description="PHOTOFF274", quantity="1")
<i>Int1d</i>	PMWA6 (description="PHOTOFF275", quantity="1")
<i>Int1d</i>	PMWB6 (description="PHOTOFF276", quantity="1")
<i>Int1d</i>	PMWC7 (description="PHOTOFF277", quantity="1")
<i>Int1d</i>	PMWA5 (description="PHOTOFF278", quantity="1")
<i>Int1d</i>	PMWB5 (description="PHOTOFF279", quantity="1")
<i>Int1d</i>	PMWC6 (description="PHOTOFF280", quantity="1")
<i>Int1d</i>	PMWD6 (description="PHOTOFF281", quantity="1")
<i>Int1d</i>	PMWB4 (description="PHOTOFF282", quantity="1")
<i>Int1d</i>	PMWC5 (description="PHOTOFF283", quantity="1")
<i>Int1d</i>	PMWD4 (description="PHOTOFF284", quantity="1")
<i>Int1d</i>	PMWA4 (description="PHOTOFF285", quantity="1")
<i>Int1d</i>	PTCP1 (description="PHOTOFF286", quantity="1")
<i>Int1d</i>	PTCP2 (description="PHOTOFF287", quantity="1")
<i>Int1d</i>	PTCP3 (description="PHOTOFF288", quantity="1")
<i>Int1d</i>	adcFlags (description="PHOTOFFADCFLGS", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")

	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.5. SPIRE Product Level 0.5 - Photometer Detector Timeline

<i>product (type="PDT", description="Photometer Detector Timeline")</i>	
<i>Metada- ta</i>	
StringParame- ter	telescope (description="Name of telescope")
StringParame- ter	instrument (description="Instrument attached to this product")
StringParame- ter	subsystem (description="Instrument Subsystem")
StringParame- ter	source (description="TM source packet name")
StringParame- ter	creator (description="Generator of this product")
StringParame- ter	object (description="Target name")
StringParame- ter	observer (description="Observer name")
StringParame- ter	proposal (description="Proposal name")
LongParame- ter	obsid (description="Observation identifier")
LongParame- ter	odNumber (description="Operational day number")
DateParame- ter	creationDate (description="Creation date of this product")
DateParame- ter	startDate (description="Start date of this product")
DateParame- ter	endDate (description="End date of this product")
StringParame- ter	aot (description="AOT Identifier")
StringParame- ter	aorLabel (description="AOR Label as entered in HSpot")
StringParame- ter	cusMode (description="CUS observation mode")
StringParame- ter	instMode (description="Instrument Mode")
StringParame- ter	obsMode (description="Observation mode name")

StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
DoubleParameter	biasFreq (description="Bias frequency", quantity="Hz")
StringParameter	elecSide (description="Electronic side", quantity="Hz")
StringParameter	modelName (description="Model name attached to this product", quantity="Hz")
StringParameter	formatVersion (description="Version of product format", quantity="Hz")
StringParameter	missionConfig (description="Mission configuration", quantity="Hz")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	type (description="Product Type Identification", quantity="arcsec/year")
StringParameter	description (description="Name of this product", quantity="arcsec/year")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec/year")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec/year")
StringParameter	signalTable (description="Name of the signal table", quantity="arcsec/year")

LongParameter	maskDead (description="Mask value for dead channel", quantity="arcsec/year")
LongParameter	maskMaster (description="Mask value for master bit", quantity="arcsec/year")
LongParameter	maskNoisy (description="Mask value for noisy channel", quantity="arcsec/year")
LongParameter	maskSlow (description="Mask value for slow channel", quantity="arcsec/year")
BooleanParameter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="arcsec/year")
DoubleParameter	ratioTruncatedPLW (description="Maximum ratio of out of range values to total number of values in PLW data.", quantity="arcsec/year")
DoubleParameter	ratioTruncatedPMW (description="Maximum ratio of out of range values to total number of values in PMW data.", quantity="arcsec/year")
DoubleParameter	ratioTruncatedPSW (description="Maximum ratio of out of range values to total number of values in PSW data.", quantity="arcsec/year")
DoubleParameter	ratioTruncatedPTC (description="Total fraction of out of range values for PTC", quantity="arcsec/year")
LongParameter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="arcsec/year")
LongParameter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="arcsec/year")
LongParameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="arcsec/year")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="arcsec/year")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="arcsec/year")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
BooleanParameter	rcRollApp (description="RC roll correction applied", quantity="ms/min")
DoubleParameter	subkTempDrift (description="Drift measured by the SubK temperature probe", quantity="K")
LongParameter	maskGlitchL1Detected (description="Mask value for first level glitch detected", quantity="K")
LongParameter	maskGlitchL1NotRemoved (description="Mask value for first level glitch detected and not removed", quantity="K")
LongParameter	maskNotChoppedToSky (description="Mask value for channel not chopped to sky", quantity="K")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="K")
DoubleParameter	plwBiasAmpl (description="PLW bias amplitude", quantity="V")

DoubleParameter	pmwBiasAmpl (description="PMW bias amplitude", quantity="V")
DoubleParameter	pswBiasAmpl (description="PSW bias amplitude", quantity="V")
DoubleParameter	ptcBiasAmpl (description="PTC bias amplitude", quantity="V")
DoubleParameter	plwBiasPhase (description="PLW bias phase", quantity="rad")
DoubleParameter	pmwBiasPhase (description="PMW bias phase", quantity="rad")
DoubleParameter	pswBiasPhase (description="PSW bias phase", quantity="rad")
DoubleParameter	ptcBiasPhase (description="PTC bias phase", quantity="rad")
StringParameter	scanSpeed (description="Speed of scan", quantity="rad")
LongParameter	scanLineNum (description="Scan line number", quantity="rad")
LongParameter	numberBadVoltageOffsetPLW (description="Number of PLW bolometers with bad voltage offset resets", quantity="rad")
LongParameter	numberBadVoltageOffsetPMW (description="Number of PMW bolometers with bad voltage offset resets", quantity="rad")
LongParameter	numberBadVoltageOffsetPSW (description="Number of PSW bolometers with bad voltage offset resets", quantity="rad")
DoubleParameter	ratioPhotFirstLevelGlitchesPSW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the PSW array", quantity="rad")
DoubleParameter	ratioPhotFirstLevelGlitchesPMW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the PMW array", quantity="rad")
DoubleParameter	ratioPhotFirstLevelGlitchesPLW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the PLW array", quantity="rad")
<i>Columns</i>	
<i>table dataset</i>	(name="voltage", description="Voltages table")
<i>Metadata</i>	
<i>Columns</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>FloatId</i>	PSWR1 (description="PHOTFARRAY001", quantity="V")
<i>FloatId</i>	PSWD16 (description="PHOTFARRAY002", quantity="V")
<i>FloatId</i>	PSWT1 (description="PHOTFARRAY003", quantity="V")
<i>FloatId</i>	PSWB16 (description="PHOTFARRAY004", quantity="V")
<i>FloatId</i>	PSWC15 (description="PHOTFARRAY005", quantity="V")
<i>FloatId</i>	PSWA15 (description="PHOTFARRAY006", quantity="V")
<i>FloatId</i>	PSWD15 (description="PHOTFARRAY007", quantity="V")
<i>FloatId</i>	PSWB15 (description="PHOTFARRAY008", quantity="V")

<i>FloatId</i>	PSWC14 (description="PHOTFARRAY009", quantity="V")
<i>FloatId</i>	PSWD14 (description="PHOTFARRAY010", quantity="V")
<i>FloatId</i>	PSWA14 (description="PHOTFARRAY011", quantity="V")
<i>FloatId</i>	PSWA13 (description="PHOTFARRAY012", quantity="V")
<i>FloatId</i>	PSWB14 (description="PHOTFARRAY013", quantity="V")
<i>FloatId</i>	PSWC13 (description="PHOTFARRAY014", quantity="V")
<i>FloatId</i>	PSWB13 (description="PHOTFARRAY015", quantity="V")
<i>FloatId</i>	PSWD13 (description="PHOTFARRAY016", quantity="V")
<i>FloatId</i>	PSWA12 (description="PHOTFARRAY017", quantity="V")
<i>FloatId</i>	PSWC12 (description="PHOTFARRAY018", quantity="V")
<i>FloatId</i>	PSWD12 (description="PHOTFARRAY019", quantity="V")
<i>FloatId</i>	PSWB12 (description="PHOTFARRAY020", quantity="V")
<i>FloatId</i>	PSWE11 (description="PHOTFARRAY021", quantity="V")
<i>FloatId</i>	PSWA11 (description="PHOTFARRAY022", quantity="V")
<i>FloatId</i>	PSWC11 (description="PHOTFARRAY023", quantity="V")
<i>FloatId</i>	PSWB11 (description="PHOTFARRAY024", quantity="V")
<i>FloatId</i>	PSWE1 (description="PHOTFARRAY025", quantity="V")
<i>FloatId</i>	PSWF1 (description="PHOTFARRAY026", quantity="V")
<i>FloatId</i>	PSWT2 (description="PHOTFARRAY027", quantity="V")
<i>FloatId</i>	PSWH1 (description="PHOTFARRAY028", quantity="V")
<i>FloatId</i>	PSWG1 (description="PHOTFARRAY029", quantity="V")
<i>FloatId</i>	PSWJ1 (description="PHOTFARRAY030", quantity="V")
<i>FloatId</i>	PSWH2 (description="PHOTFARRAY031", quantity="V")
<i>FloatId</i>	PSWF2 (description="PHOTFARRAY032", quantity="V")
<i>FloatId</i>	PSWJ2 (description="PHOTFARRAY033", quantity="V")
<i>FloatId</i>	PSWG2 (description="PHOTFARRAY034", quantity="V")
<i>FloatId</i>	PSWH3 (description="PHOTFARRAY035", quantity="V")
<i>FloatId</i>	PSWJ3 (description="PHOTFARRAY036", quantity="V")
<i>FloatId</i>	PSWE2 (description="PHOTFARRAY037", quantity="V")
<i>FloatId</i>	PSWF3 (description="PHOTFARRAY038", quantity="V")
<i>FloatId</i>	PSWG3 (description="PHOTFARRAY039", quantity="V")
<i>FloatId</i>	PSWH4 (description="PHOTFARRAY040", quantity="V")
<i>FloatId</i>	PSWJ4 (description="PHOTFARRAY041", quantity="V")
<i>FloatId</i>	PSWE3 (description="PHOTFARRAY042", quantity="V")
<i>FloatId</i>	PSWF4 (description="PHOTFARRAY043", quantity="V")
<i>FloatId</i>	PSWG4 (description="PHOTFARRAY044", quantity="V")
<i>FloatId</i>	PSWH5 (description="PHOTFARRAY045", quantity="V")
<i>FloatId</i>	PSWE4 (description="PHOTFARRAY046", quantity="V")
<i>FloatId</i>	PSWJ5 (description="PHOTFARRAY047", quantity="V")
<i>FloatId</i>	PSWF5 (description="PHOTFARRAY048", quantity="V")
<i>FloatId</i>	PSWD6 (description="PHOTFARRAY049", quantity="V")
<i>FloatId</i>	PSWB6 (description="PHOTFARRAY050", quantity="V")

<i>FloatId</i>	PSWC5 (description="PHOTFARRAY051", quantity="V")
<i>FloatId</i>	PSWA5 (description="PHOTFARRAY052", quantity="V")
<i>FloatId</i>	PSWE5 (description="PHOTFARRAY053", quantity="V")
<i>FloatId</i>	PSWB5 (description="PHOTFARRAY054", quantity="V")
<i>FloatId</i>	PSWD5 (description="PHOTFARRAY055", quantity="V")
<i>FloatId</i>	PSWC4 (description="PHOTFARRAY056", quantity="V")
<i>FloatId</i>	PSWA4 (description="PHOTFARRAY057", quantity="V")
<i>FloatId</i>	PSWD4 (description="PHOTFARRAY058", quantity="V")
<i>FloatId</i>	PSWB4 (description="PHOTFARRAY059", quantity="V")
<i>FloatId</i>	PSWC3 (description="PHOTFARRAY060", quantity="V")
<i>FloatId</i>	PSWB3 (description="PHOTFARRAY061", quantity="V")
<i>FloatId</i>	PSWA3 (description="PHOTFARRAY062", quantity="V")
<i>FloatId</i>	PSWA2 (description="PHOTFARRAY063", quantity="V")
<i>FloatId</i>	PSWD3 (description="PHOTFARRAY064", quantity="V")
<i>FloatId</i>	PSWC2 (description="PHOTFARRAY065", quantity="V")
<i>FloatId</i>	PSWB2 (description="PHOTFARRAY066", quantity="V")
<i>FloatId</i>	PSWD2 (description="PHOTFARRAY067", quantity="V")
<i>FloatId</i>	PSWA1 (description="PHOTFARRAY068", quantity="V")
<i>FloatId</i>	PSWC1 (description="PHOTFARRAY069", quantity="V")
<i>FloatId</i>	PSWB1 (description="PHOTFARRAY070", quantity="V")
<i>FloatId</i>	PSWDP1 (description="PHOTFARRAY071", quantity="V")
<i>FloatId</i>	PSWD1 (description="PHOTFARRAY072", quantity="V")
<i>FloatId</i>	PSWF12 (description="PHOTFARRAY073", quantity="V")
<i>FloatId</i>	PSWJ11 (description="PHOTFARRAY074", quantity="V")
<i>FloatId</i>	PSWE12 (description="PHOTFARRAY075", quantity="V")
<i>FloatId</i>	PSWH12 (description="PHOTFARRAY076", quantity="V")
<i>FloatId</i>	PSWG12 (description="PHOTFARRAY077", quantity="V")
<i>FloatId</i>	PSWF13 (description="PHOTFARRAY078", quantity="V")
<i>FloatId</i>	PSWE13 (description="PHOTFARRAY079", quantity="V")
<i>FloatId</i>	PSWJ12 (description="PHOTFARRAY080", quantity="V")
<i>FloatId</i>	PSWH13 (description="PHOTFARRAY081", quantity="V")
<i>FloatId</i>	PSWG13 (description="PHOTFARRAY082", quantity="V")
<i>FloatId</i>	PSWF14 (description="PHOTFARRAY083", quantity="V")
<i>FloatId</i>	PSWE14 (description="PHOTFARRAY084", quantity="V")
<i>FloatId</i>	PSWJ13 (description="PHOTFARRAY085", quantity="V")
<i>FloatId</i>	PSWH14 (description="PHOTFARRAY086", quantity="V")
<i>FloatId</i>	PSWG14 (description="PHOTFARRAY087", quantity="V")
<i>FloatId</i>	PSWJ14 (description="PHOTFARRAY088", quantity="V")
<i>FloatId</i>	PSWF15 (description="PHOTFARRAY089", quantity="V")
<i>FloatId</i>	PSWH15 (description="PHOTFARRAY090", quantity="V")
<i>FloatId</i>	PSWJ15 (description="PHOTFARRAY091", quantity="V")
<i>FloatId</i>	PSWG15 (description="PHOTFARRAY092", quantity="V")

<i>FloatId</i>	PSWH16 (description="PHOTFARRAY093", quantity="V")
<i>FloatId</i>	PSWDP2 (description="PHOTFARRAY094", quantity="V")
<i>FloatId</i>	PSWF16 (description="PHOTFARRAY095", quantity="V")
<i>FloatId</i>	PSWE15 (description="PHOTFARRAY096", quantity="V")
<i>FloatId</i>	PSWD11 (description="PHOTFARRAY097", quantity="V")
<i>FloatId</i>	PSWA10 (description="PHOTFARRAY098", quantity="V")
<i>FloatId</i>	PSWE10 (description="PHOTFARRAY099", quantity="V")
<i>FloatId</i>	PSWC10 (description="PHOTFARRAY100", quantity="V")
<i>FloatId</i>	PSWB10 (description="PHOTFARRAY101", quantity="V")
<i>FloatId</i>	PSWD10 (description="PHOTFARRAY102", quantity="V")
<i>FloatId</i>	PSWA9 (description="PHOTFARRAY103", quantity="V")
<i>FloatId</i>	PSWE9 (description="PHOTFARRAY104", quantity="V")
<i>FloatId</i>	PSWC9 (description="PHOTFARRAY105", quantity="V")
<i>FloatId</i>	PSWB9 (description="PHOTFARRAY106", quantity="V")
<i>FloatId</i>	PSWD9 (description="PHOTFARRAY107", quantity="V")
<i>FloatId</i>	PSWA8 (description="PHOTFARRAY108", quantity="V")
<i>FloatId</i>	PSWC8 (description="PHOTFARRAY109", quantity="V")
<i>FloatId</i>	PSWE8 (description="PHOTFARRAY110", quantity="V")
<i>FloatId</i>	PSWD8 (description="PHOTFARRAY111", quantity="V")
<i>FloatId</i>	PSWB8 (description="PHOTFARRAY112", quantity="V")
<i>FloatId</i>	PSWC7 (description="PHOTFARRAY113", quantity="V")
<i>FloatId</i>	PSWE7 (description="PHOTFARRAY114", quantity="V")
<i>FloatId</i>	PSWA7 (description="PHOTFARRAY115", quantity="V")
<i>FloatId</i>	PSWD7 (description="PHOTFARRAY116", quantity="V")
<i>FloatId</i>	PSWB7 (description="PHOTFARRAY117", quantity="V")
<i>FloatId</i>	PSWC6 (description="PHOTFARRAY118", quantity="V")
<i>FloatId</i>	PSWE6 (description="PHOTFARRAY119", quantity="V")
<i>FloatId</i>	PSWA6 (description="PHOTFARRAY120", quantity="V")
<i>FloatId</i>	PSWG5 (description="PHOTFARRAY121", quantity="V")
<i>FloatId</i>	PSWH6 (description="PHOTFARRAY122", quantity="V")
<i>FloatId</i>	PSWJ6 (description="PHOTFARRAY123", quantity="V")
<i>FloatId</i>	PSWF6 (description="PHOTFARRAY124", quantity="V")
<i>FloatId</i>	PSWG6 (description="PHOTFARRAY125", quantity="V")
<i>FloatId</i>	PSWH7 (description="PHOTFARRAY126", quantity="V")
<i>FloatId</i>	PSWF7 (description="PHOTFARRAY127", quantity="V")
<i>FloatId</i>	PSWJ7 (description="PHOTFARRAY128", quantity="V")
<i>FloatId</i>	PSWG7 (description="PHOTFARRAY129", quantity="V")
<i>FloatId</i>	PSWH8 (description="PHOTFARRAY130", quantity="V")
<i>FloatId</i>	PSWF8 (description="PHOTFARRAY131", quantity="V")
<i>FloatId</i>	PSWG8 (description="PHOTFARRAY132", quantity="V")
<i>FloatId</i>	PSWJ8 (description="PHOTFARRAY133", quantity="V")
<i>FloatId</i>	PSWF9 (description="PHOTFARRAY134", quantity="V")

<i>FloatId</i>	PSWH9 (description="PHOTFARRAY135", quantity="V")
<i>FloatId</i>	PSWG9 (description="PHOTFARRAY136", quantity="V")
<i>FloatId</i>	PSWJ9 (description="PHOTFARRAY137", quantity="V")
<i>FloatId</i>	PSWF10 (description="PHOTFARRAY138", quantity="V")
<i>FloatId</i>	PSWH10 (description="PHOTFARRAY139", quantity="V")
<i>FloatId</i>	PSWG10 (description="PHOTFARRAY140", quantity="V")
<i>FloatId</i>	PSWF11 (description="PHOTFARRAY141", quantity="V")
<i>FloatId</i>	PSWJ10 (description="PHOTFARRAY142", quantity="V")
<i>FloatId</i>	PSWH11 (description="PHOTFARRAY143", quantity="V")
<i>FloatId</i>	PSWG11 (description="PHOTFARRAY144", quantity="V")
<i>FloatId</i>	PLWR1 (description="PHOTFARRAY145", quantity="V")
<i>FloatId</i>	PLWA8 (description="PHOTFARRAY146", quantity="V")
<i>FloatId</i>	PLWA7 (description="PHOTFARRAY147", quantity="V")
<i>FloatId</i>	PLWA6 (description="PHOTFARRAY148", quantity="V")
<i>FloatId</i>	PLWA9 (description="PHOTFARRAY149", quantity="V")
<i>FloatId</i>	PLWC9 (description="PHOTFARRAY150", quantity="V")
<i>FloatId</i>	PLWB8 (description="PHOTFARRAY151", quantity="V")
<i>FloatId</i>	PLWB7 (description="PHOTFARRAY152", quantity="V")
<i>FloatId</i>	PLWC7 (description="PHOTFARRAY153", quantity="V")
<i>FloatId</i>	PLWB5 (description="PHOTFARRAY154", quantity="V")
<i>FloatId</i>	PLWB6 (description="PHOTFARRAY155", quantity="V")
<i>FloatId</i>	PLWA5 (description="PHOTFARRAY156", quantity="V")
<i>FloatId</i>	PLWT1 (description="PHOTFARRAY157", quantity="V")
<i>FloatId</i>	PLWB4 (description="PHOTFARRAY158", quantity="V")
<i>FloatId</i>	PLWC4 (description="PHOTFARRAY159", quantity="V")
<i>FloatId</i>	PLWB3 (description="PHOTFARRAY160", quantity="V")
<i>FloatId</i>	PLWC2 (description="PHOTFARRAY161", quantity="V")
<i>FloatId</i>	PLWB2 (description="PHOTFARRAY162", quantity="V")
<i>FloatId</i>	PLWB1 (description="PHOTFARRAY163", quantity="V")
<i>FloatId</i>	PLWA3 (description="PHOTFARRAY164", quantity="V")
<i>FloatId</i>	PLWA4 (description="PHOTFARRAY165", quantity="V")
<i>FloatId</i>	PLWA1 (description="PHOTFARRAY166", quantity="V")
<i>FloatId</i>	PLWDP1 (description="PHOTFARRAY167", quantity="V")
<i>FloatId</i>	PLWA2 (description="PHOTFARRAY168", quantity="V")
<i>FloatId</i>	PLWE1 (description="PHOTFARRAY169", quantity="V")
<i>FloatId</i>	PLWE2 (description="PHOTFARRAY170", quantity="V")
<i>FloatId</i>	PLWE3 (description="PHOTFARRAY171", quantity="V")
<i>FloatId</i>	PLWE4 (description="PHOTFARRAY172", quantity="V")
<i>FloatId</i>	PLWD1 (description="PHOTFARRAY173", quantity="V")
<i>FloatId</i>	PLWD2 (description="PHOTFARRAY174", quantity="V")
<i>FloatId</i>	PLWD3 (description="PHOTFARRAY175", quantity="V")
<i>FloatId</i>	PLWD4 (description="PHOTFARRAY176", quantity="V")

<i>FloatId</i>	PLWC1 (description="PHOTFARRAY177", quantity="V")
<i>FloatId</i>	PLWC3 (description="PHOTFARRAY178", quantity="V")
<i>FloatId</i>	PLWC5 (description="PHOTFARRAY179", quantity="V")
<i>FloatId</i>	PLWT2 (description="PHOTFARRAY180", quantity="V")
<i>FloatId</i>	PLWE5 (description="PHOTFARRAY181", quantity="V")
<i>FloatId</i>	PLWC6 (description="PHOTFARRAY182", quantity="V")
<i>FloatId</i>	PLWC8 (description="PHOTFARRAY183", quantity="V")
<i>FloatId</i>	PLWD5 (description="PHOTFARRAY184", quantity="V")
<i>FloatId</i>	PLWD6 (description="PHOTFARRAY185", quantity="V")
<i>FloatId</i>	PLWD7 (description="PHOTFARRAY186", quantity="V")
<i>FloatId</i>	PLWD8 (description="PHOTFARRAY187", quantity="V")
<i>FloatId</i>	PLWE7 (description="PHOTFARRAY188", quantity="V")
<i>FloatId</i>	PLWE6 (description="PHOTFARRAY189", quantity="V")
<i>FloatId</i>	PLWE8 (description="PHOTFARRAY190", quantity="V")
<i>FloatId</i>	PLWDP2 (description="PHOTFARRAY191", quantity="V")
<i>FloatId</i>	PLWE9 (description="PHOTFARRAY192", quantity="V")
<i>FloatId</i>	PMWA13 (description="PHOTFARRAY193", quantity="V")
<i>FloatId</i>	PMWT1 (description="PHOTFARRAY194", quantity="V")
<i>FloatId</i>	PMWB12 (description="PHOTFARRAY195", quantity="V")
<i>FloatId</i>	PMWC13 (description="PHOTFARRAY196", quantity="V")
<i>FloatId</i>	PMWA12 (description="PHOTFARRAY197", quantity="V")
<i>FloatId</i>	PMWD12 (description="PHOTFARRAY198", quantity="V")
<i>FloatId</i>	PMWC12 (description="PHOTFARRAY199", quantity="V")
<i>FloatId</i>	PMWB11 (description="PHOTFARRAY200", quantity="V")
<i>FloatId</i>	PMWA11 (description="PHOTFARRAY201", quantity="V")
<i>FloatId</i>	PMWE13 (description="PHOTFARRAY202", quantity="V")
<i>FloatId</i>	PMWD11 (description="PHOTFARRAY203", quantity="V")
<i>FloatId</i>	PMWC11 (description="PHOTFARRAY204", quantity="V")
<i>FloatId</i>	PMWB10 (description="PHOTFARRAY205", quantity="V")
<i>FloatId</i>	PMWA10 (description="PHOTFARRAY206", quantity="V")
<i>FloatId</i>	PMWD10 (description="PHOTFARRAY207", quantity="V")
<i>FloatId</i>	PMWB9 (description="PHOTFARRAY208", quantity="V")
<i>FloatId</i>	PMWC10 (description="PHOTFARRAY209", quantity="V")
<i>FloatId</i>	PMWC9 (description="PHOTFARRAY210", quantity="V")
<i>FloatId</i>	PMWA9 (description="PHOTFARRAY211", quantity="V")
<i>FloatId</i>	PMWB8 (description="PHOTFARRAY212", quantity="V")
<i>FloatId</i>	PMWA8 (description="PHOTFARRAY213", quantity="V")
<i>FloatId</i>	PMWD8 (description="PHOTFARRAY214", quantity="V")
<i>FloatId</i>	PMWC8 (description="PHOTFARRAY215", quantity="V")
<i>FloatId</i>	PMWB7 (description="PHOTFARRAY216", quantity="V")
<i>FloatId</i>	PMWR1 (description="PHOTFARRAY217", quantity="V")
<i>FloatId</i>	PMWG1 (description="PHOTFARRAY218", quantity="V")

<i>Float1d</i>	PMWT2 (description="PHOTFARRAY219", quantity="V")
<i>Float1d</i>	PMWE1 (description="PHOTFARRAY220", quantity="V")
<i>Float1d</i>	PMWD1 (description="PHOTFARRAY221", quantity="V")
<i>Float1d</i>	PMWF1 (description="PHOTFARRAY222", quantity="V")
<i>Float1d</i>	PMWE2 (description="PHOTFARRAY223", quantity="V")
<i>Float1d</i>	PMWG2 (description="PHOTFARRAY224", quantity="V")
<i>Float1d</i>	PMWF2 (description="PHOTFARRAY225", quantity="V")
<i>Float1d</i>	PMWG3 (description="PHOTFARRAY226", quantity="V")
<i>Float1d</i>	PMWE3 (description="PHOTFARRAY227", quantity="V")
<i>Float1d</i>	PMWD3 (description="PHOTFARRAY228", quantity="V")
<i>Float1d</i>	PMWF3 (description="PHOTFARRAY229", quantity="V")
<i>Float1d</i>	PMWG4 (description="PHOTFARRAY230", quantity="V")
<i>Float1d</i>	PMWE4 (description="PHOTFARRAY231", quantity="V")
<i>Float1d</i>	PMWF4 (description="PHOTFARRAY232", quantity="V")
<i>Float1d</i>	PMWE5 (description="PHOTFARRAY233", quantity="V")
<i>Float1d</i>	PMWD5 (description="PHOTFARRAY234", quantity="V")
<i>Float1d</i>	PMWF5 (description="PHOTFARRAY235", quantity="V")
<i>Float1d</i>	PMWG5 (description="PHOTFARRAY236", quantity="V")
<i>Float1d</i>	PMWE6 (description="PHOTFARRAY237", quantity="V")
<i>Float1d</i>	PMWG6 (description="PHOTFARRAY238", quantity="V")
<i>Float1d</i>	PMWF6 (description="PHOTFARRAY239", quantity="V")
<i>Float1d</i>	PMWG7 (description="PHOTFARRAY240", quantity="V")
<i>Float1d</i>	PMWF10 (description="PHOTFARRAY241", quantity="V")
<i>Float1d</i>	PMWE11 (description="PHOTFARRAY242", quantity="V")
<i>Float1d</i>	PMWG11 (description="PHOTFARRAY243", quantity="V")
<i>Float1d</i>	PMWF11 (description="PHOTFARRAY244", quantity="V")
<i>Float1d</i>	PMWE12 (description="PHOTFARRAY245", quantity="V")
<i>Float1d</i>	PMWG12 (description="PHOTFARRAY246", quantity="V")
<i>Float1d</i>	PMWF12 (description="PHOTFARRAY247", quantity="V")
<i>Float1d</i>	PMWG13 (description="PHOTFARRAY248", quantity="V")
<i>Float1d</i>	PMWDP2 (description="PHOTFARRAY249", quantity="V")
<i>Float1d</i>	PMWE7 (description="PHOTFARRAY250", quantity="V")
<i>Float1d</i>	PMWD7 (description="PHOTFARRAY251", quantity="V")
<i>Float1d</i>	PMWF7 (description="PHOTFARRAY252", quantity="V")
<i>Float1d</i>	PMWE8 (description="PHOTFARRAY253", quantity="V")
<i>Float1d</i>	PMWG8 (description="PHOTFARRAY254", quantity="V")
<i>Float1d</i>	PMWF8 (description="PHOTFARRAY255", quantity="V")
<i>Float1d</i>	PMWE9 (description="PHOTFARRAY256", quantity="V")
<i>Float1d</i>	PMWG9 (description="PHOTFARRAY257", quantity="V")
<i>Float1d</i>	PMWD9 (description="PHOTFARRAY258", quantity="V")
<i>Float1d</i>	PMWF9 (description="PHOTFARRAY259", quantity="V")
<i>Float1d</i>	PMWE10 (description="PHOTFARRAY260", quantity="V")

<i>Float1d</i>	PMWG10 (description="PHOTFARRAY261", quantity="V")
<i>Float1d</i>	PMWC4 (description="PHOTFARRAY262", quantity="V")
<i>Float1d</i>	PMWB3 (description="PHOTFARRAY263", quantity="V")
<i>Float1d</i>	PMWC3 (description="PHOTFARRAY264", quantity="V")
<i>Float1d</i>	PMWB2 (description="PHOTFARRAY265", quantity="V")
<i>Float1d</i>	PMWD2 (description="PHOTFARRAY266", quantity="V")
<i>Float1d</i>	PMWA3 (description="PHOTFARRAY267", quantity="V")
<i>Float1d</i>	PMWA2 (description="PHOTFARRAY268", quantity="V")
<i>Float1d</i>	PMWC2 (description="PHOTFARRAY269", quantity="V")
<i>Float1d</i>	PMWB1 (description="PHOTFARRAY270", quantity="V")
<i>Float1d</i>	PMWA1 (description="PHOTFARRAY271", quantity="V")
<i>Float1d</i>	PMWDP1 (description="PHOTFARRAY272", quantity="V")
<i>Float1d</i>	PMWC1 (description="PHOTFARRAY273", quantity="V")
<i>Float1d</i>	PMWA7 (description="PHOTFARRAY274", quantity="V")
<i>Float1d</i>	PMWA6 (description="PHOTFARRAY275", quantity="V")
<i>Float1d</i>	PMWB6 (description="PHOTFARRAY276", quantity="V")
<i>Float1d</i>	PMWC7 (description="PHOTFARRAY277", quantity="V")
<i>Float1d</i>	PMWA5 (description="PHOTFARRAY278", quantity="V")
<i>Float1d</i>	PMWB5 (description="PHOTFARRAY279", quantity="V")
<i>Float1d</i>	PMWC6 (description="PHOTFARRAY280", quantity="V")
<i>Float1d</i>	PMWD6 (description="PHOTFARRAY281", quantity="V")
<i>Float1d</i>	PMWB4 (description="PHOTFARRAY282", quantity="V")
<i>Float1d</i>	PMWC5 (description="PHOTFARRAY283", quantity="V")
<i>Float1d</i>	PMWD4 (description="PHOTFARRAY284", quantity="V")
<i>Float1d</i>	PMWA4 (description="PHOTFARRAY285", quantity="V")
<i>Float1d</i>	PTCP1 (description="PHOTFARRAY286", quantity="V")
<i>Float1d</i>	PTCP2 (description="PHOTFARRAY287", quantity="V")
<i>Float1d</i>	PTCP3 (description="PHOTFARRAY288", quantity="V")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="resistance", description="Resistances table")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="quality", description="Quality control metric quantities")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="temperature", description="Temperature")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

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5.2.6. SPIRE Product Level 0.5 - Subsystem Control Unit Timeline

<i>product (type="SCUT", description="Subsystem Control Unit Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")

StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	type (description="Product Type Identification", quantity="arcsec/year")
StringParameter	description (description="Name of this product", quantity="arcsec/year")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec/year")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec/year")
LongParameter	maskMaster (description="Mask value for master bit", quantity="arcsec/year")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="arcsec/year")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="arcsec/year")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="ms/min")
StringParameter	scanSpeed (description="Speed of scan", quantity="ms/min")
<i>Columns</i>	
<i>table dataset</i>	(name="signal", description="Signal timelines")
<i>Metadata</i>	
<i>Columns</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>DoubleId</i>	pumpHTemp (description="SCUPHTEMP", quantity="K")
<i>DoubleId</i>	pumpHSTemp (description="SCUPHSTEMP", quantity="K")
<i>DoubleId</i>	evapHSTemp (description="SCUEVHSTEMP", quantity="K")
<i>DoubleId</i>	shuntTemp (description="SCUSHUNTTEMP", quantity="K")
<i>DoubleId</i>	emcFilTemp (description="SCUEMCFILTEMP", quantity="K")
<i>DoubleId</i>	specL0Temp (description="SCUSL0TEMP", quantity="K")
<i>DoubleId</i>	photL0Temp (description="SCUPL0TEMP", quantity="K")
<i>DoubleId</i>	osbTemp (description="SCUOPTTEMP", quantity="K")
<i>DoubleId</i>	fpuBaffTemp (description="SCUBAFTEMP", quantity="K")
<i>DoubleId</i>	bsmIntTemp (description="SCUBSMIFTEMP", quantity="K")
<i>DoubleId</i>	scal2Temp (description="SCUSCAL2TEMP", quantity="K")
<i>DoubleId</i>	scal4Temp (description="SCUSCAL4TEMP", quantity="K")
<i>DoubleId</i>	scalFlanTemp (description="SCUSCALTEMP", quantity="K")
<i>DoubleId</i>	smecIntTemp (description="CUSMECIFTEMP", quantity="K")
<i>DoubleId</i>	smecTemp (description="CUSMECTEMP", quantity="K")
<i>DoubleId</i>	bsmTemp (description="SCUBSMTEMP", quantity="K")
<i>DoubleId</i>	ceSubKTemp (description="CUSUBKTEMP", quantity="K")
<i>DoubleId</i>	tchVolt (description="SCUTCHTRV", quantity="V")

<i>Double1d</i>	pcalCurr (description="SCUPCALCURRE", quantity="A")
<i>Double1d</i>	pcalVolt (description="SCUPCALV", quantity="V")
<i>Double1d</i>	scal2Curr (description="SCUSCAL2CURRE", quantity="A")
<i>Double1d</i>	scal2Volt (description="SCUSCAL2V", quantity="V")
<i>Double1d</i>	scal4Curr (description="SCUSCAL4CURRE", quantity="A")
<i>Double1d</i>	scal4Volt (description="SCUSCAL4V", quantity="V")
<i>Int1d</i>	adcFlags (description="SCUADC_FLAGS", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.7. SPIRE Product Level 0.5 - Critical House Keeping Timeline

<i>product (type="CHKT", description="Critical House Keeping Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")

StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
StringParameter	origin (description="Site that created the product", quantity="arcsec a-1")
StringParameter	type (description="Product Type Identification", quantity="arcsec a-1")
StringParameter	description (description="Name of this product", quantity="arcsec a-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in the engineering conversion", quantity="arcsec a-1")
StringParameter	level (description="The level of the product", quantity="arcsec a-1")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec a-1")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec a-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="s")
StringParameter	scanSpeed (description="Speed of scan", quantity="s")
<i>Columns</i>	
<i>table dataset</i>	(name="signal", description="Signal timelines")
<i>Metadata</i>	
<i>Columns</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>IntId</i>	SID_C (description="SID_C", quantity="1")
<i>LongId</i>	OBSID_C (description="OBSID_C", quantity="1")
<i>LongId</i>	BBID_C (description="BBID_C", quantity="1")
<i>StringId</i>	MODE_C (description="MODE_C", quantity="1")
<i>IntId</i>	STEP_C (description="STEP_C", quantity="1")
<i>IntId</i>	TCRECV_C (description="TCRECV_C", quantity="1")
<i>IntId</i>	TCEXEC_C (description="TCEXEC_C", quantity="1")
<i>StringId</i>	MEMSTAT1_C (description="MEMSTAT1_C", quantity="1")
<i>StringId</i>	MEMSTAT2_C (description="MEMSTAT2_C", quantity="1")
<i>StringId</i>	MEMSTAT3_C (description="MEMSTAT3_C", quantity="1")
<i>StringId</i>	MONSTAT_C (description="MONSTAT_C", quantity="1")
<i>StringId</i>	SCUDCDCSTAT_C (description="SCUDCDCSTAT_C", quantity="1")

<i>StringId</i>	MCUIFSTAT_C (description="MCUIFSTAT_C", quantity="1")
<i>StringId</i>	SCUIFSTAT_C (description="SCUIFSTAT_C", quantity="1")
<i>StringId</i>	PSWJFETSTAT_C (description="PSWJFETSTAT_C", quantity="1")
<i>StringId</i>	PSW_VDD_JFET1_C (description="PSW_VDD_JFET1_C", quantity="1")
<i>StringId</i>	PSW_VDD_JFET2_C (description="PSW_VDD_JFET2_C", quantity="1")
<i>StringId</i>	PSW_VDD_JFET3_C (description="PSW_VDD_JFET3_C", quantity="1")
<i>StringId</i>	PSW_VDD_JFET4_C (description="PSW_VDD_JFET4_C", quantity="1")
<i>StringId</i>	PSW_VDD_JFET5_C (description="PSW_VDD_JFET5_C", quantity="1")
<i>StringId</i>	PSW_VDD_JFET6_C (description="PSW_VDD_JFET6_C", quantity="1")
<i>StringId</i>	PMLWJFETSTAT_C (description="PMLWJFETSTAT_C", quantity="1")
<i>StringId</i>	PMW_VDD_JFET1_C (description="PMW_VDD_JFET1_C", quantity="1")
<i>StringId</i>	PMW_VDD_JFET2_C (description="PMW_VDD_JFET2_C", quantity="1")
<i>StringId</i>	PMW_VDD_JFET3_C (description="PMW_VDD_JFET3_C", quantity="1")
<i>StringId</i>	PMW_VDD_JFET4_C (description="PMW_VDD_JFET4_C", quantity="1")
<i>StringId</i>	PLW_VDD_JFET1_C (description="PLW_VDD_JFET1_C", quantity="1")
<i>StringId</i>	PLW_VDD_JFET2_C (description="PLW_VDD_JFET2_C", quantity="1")
<i>StringId</i>	TC_VDD_JFET_C (description="TC_VDD_JFET_C", quantity="1")
<i>StringId</i>	SPECJFETSTAT_C (description="SPECJFETSTAT_C", quantity="1")
<i>StringId</i>	SLW_VDD_JFET1_C (description="SLW_VDD_JFET1_C", quantity="1")
<i>StringId</i>	SSW_VDD_JFET1_C (description="SSW_VDD_JFET1_C", quantity="1")
<i>StringId</i>	SSW_VDD_JFET2_C (description="SSW_VDD_JFET2_C", quantity="1")
<i>StringId</i>	LIASTAT_C (description="LIASTAT_C", quantity="1")
<i>StringId</i>	LIAP1STAT_C (description="LIAP1STAT_C", quantity="1")
<i>StringId</i>	LIAP2STAT_C (description="LIAP2STAT_C", quantity="1")
<i>StringId</i>	LIAP3STAT_C (description="LIAP3STAT_C", quantity="1")
<i>StringId</i>	LIAP4STAT_C (description="LIAP4STAT_C", quantity="1")
<i>StringId</i>	LIAP5STAT_C (description="LIAP5STAT_C", quantity="1")
<i>StringId</i>	LIAP6STAT_C (description="LIAP6STAT_C", quantity="1")
<i>StringId</i>	LIAP7STAT_C (description="LIAP7STAT_C", quantity="1")
<i>StringId</i>	LIAP8STAT_C (description="LIAP8STAT_C", quantity="1")

<i>String1d</i>	LIAP9STAT_C (description="LIAP9STAT_C", quantity="1")
<i>String1d</i>	LIAS1STAT_C (description="LIAS1STAT_C", quantity="1")
<i>String1d</i>	LIAS2STAT_C (description="LIAS2STAT_C", quantity="1")
<i>String1d</i>	LIAS3STAT_C (description="LIAS3STAT_C", quantity="1")
<i>String1d</i>	MCUERR_C (description="MCUERR_C", quantity="1")
<i>String1d</i>	SMECSTAT_C (description="SMECSTAT_C", quantity="1")
<i>String1d</i>	BSMSTAT_C (description="BSMSTAT_C", quantity="1")
<i>String1d</i>	SCUSTAT_C (description="SCUSTAT_C", quantity="1")
<i>Double1d</i>	SUBKTEMP_C (description="SUBKTEMP_C", quantity="K")
<i>Int1d</i>	OBSVER_C (description="OBSVER_C", quantity="1")
<i>Short1d</i>	OBSVER1_C (description="OBSVER1_C", quantity="1")
<i>Short1d</i>	OBSVER2_C (description="OBSVER2_C", quantity="1")
<i>String1d</i>	OBSVER3_C (description="OBSVER3_C", quantity="1")
<i>String1d</i>	CHK_VERS (description="CHK_VERS", quantity="1")
<i>String1d</i>	CHK_TYPE (description="CHK_TYPE", quantity="1")
<i>String1d</i>	CHK_DFHFLAG (description="CHK_DFHFLAG", quantity="1")
<i>Short1d</i>	CHK_APID (description="CHK_APID", quantity="1")
<i>String1d</i>	CHK_SEGFLAG (description="CHK_SEGFLAG", quantity="1")
<i>Short1d</i>	CHK_SSC (description="CHK_SSC", quantity="1")
<i>Int1d</i>	CHK_PKTLEN (description="CHK_PKTLEN", quantity="1")
<i>String1d</i>	CHK_PUSVERS (description="CHK_PUSVERS", quantity="1")
<i>Short1d</i>	CHK_PKTTYPE (description="CHK_PKTTYPE", quantity="1")
<i>Short1d</i>	CHK_PKTSTYPE (description="CHK_PKTSTYPE", quantity="1")
<i>Long1d</i>	CHK_PKTCTIME (description="CHK_PKTCTIME", quantity="1")
<i>Int1d</i>	CHK_PKTFTIME (description="CHK_PKTFTIME", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.8. SPIRE Product Level 0.5 - Nominal House Keeping Timeline

<i>product</i> (type="NHKT", description="Nominal House Keeping Timeline")	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")

StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
StringParameter	origin (description="Site that created the product", quantity="arcsec a-1")
StringParameter	type (description="Product Type Identification", quantity="arcsec a-1")
StringParameter	description (description="Name of this product", quantity="arcsec a-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in the engineering conversion", quantity="arcsec a-1")
StringParameter	level (description="The level of the product", quantity="arcsec a-1")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec a-1")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec a-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="s")
StringParameter	scanSpeed (description="Speed of scan", quantity="s")

<i>Columns</i>	
<i>table dataset</i>	(name="signal", description="Signal timelines")
<i>Metadata</i>	
<i>Columns</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>StringId</i>	NHK_VERS (description="NHK_VERS", quantity="1")
<i>StringId</i>	NHK_TYPE (description="NHK_TYPE", quantity="1")
<i>StringId</i>	NHK_DFHFLAG (description="NHK_DFHFLAG", quantity="1")
<i>ShortId</i>	NHK_APID (description="NHK_APID", quantity="1")
<i>StringId</i>	NHK_SEGFLAG (description="NHK_SEGFLAG", quantity="1")
<i>ShortId</i>	NHK_SSC (description="NHK_SSC", quantity="1")
<i>IntId</i>	NHK_PKTLEN (description="NHK_PKTLEN", quantity="1")
<i>StringId</i>	NHK_PUSVERS (description="NHK_PUSVERS", quantity="1")
<i>ShortId</i>	NHK_PKTTYPE (description="NHK_PKTTYPE", quantity="1")
<i>ShortId</i>	NHK_PKTSTYPE (description="NHK_PKTSTYPE", quantity="1")
<i>LongId</i>	NHK_PKTCTIME (description="NHK_PKTCTIME", quantity="1")
<i>IntId</i>	NHK_PKTFTIME (description="NHK_PKTFTIME", quantity="1")
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<i>StringId</i>	MODE (description="MODE", quantity="1")
<i>IntId</i>	STEP (description="STEP", quantity="1")
<i>StringId</i>	THSK (description="THSK", quantity="1")
<i>LongId</i>	TRESET (description="TRESET", quantity="1")
<i>IntId</i>	TCRECV (description="TCRECV", quantity="1")
<i>IntId</i>	TCRECN (description="TCRECN", quantity="1")
<i>IntId</i>	TCEXEC (description="TCEXEC", quantity="1")
<i>IntId</i>	TCEXEN (description="TCEXEN", quantity="1")
<i>IntId</i>	TM1N (description="TM1N", quantity="1")
<i>IntId</i>	TM2N (description="TM2N", quantity="1")
<i>IntId</i>	TM3N (description="TM3N", quantity="1")
<i>IntId</i>	TM4N (description="TM4N", quantity="1")
<i>IntId</i>	TM5N (description="TM5N", quantity="1")
<i>IntId</i>	DCUFRAMECNT (description="DCUFRAMECNT", quantity="1")
<i>IntId</i>	MCUFRAMECNT (description="MCUFRAMECNT", quantity="1")
<i>IntId</i>	SCUFRAMECNT (description="SCUFRAMECNT", quantity="1")
<i>StringId</i>	TSYNC (description="TSYNC", quantity="1")
<i>StringId</i>	TDIFF (description="TDIFF", quantity="1")
<i>StringId</i>	MEMSTAT_1 (description="MEMSTAT_1", quantity="1")
<i>StringId</i>	MEMSTAT_2 (description="MEMSTAT_2", quantity="1")
<i>StringId</i>	MEMSTAT_3 (description="MEMSTAT_3", quantity="1")
<i>StringId</i>	MONSTAT (description="MONSTAT", quantity="1")
<i>StringId</i>	DCULSIFSTAT (description="DCULSIFSTAT", quantity="1")

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<i>String1d</i>	MCULSIFSTAT (description="MCULSIFSTAT", quantity="1")
<i>String1d</i>	MCUHSIFMODE (description="MCUHSIFMODE", quantity="1")
<i>String1d</i>	SCULSIFSTAT (description="SCULSIFSTAT", quantity="1")
<i>String1d</i>	SCUHSMODE (description="SCUHSMODE", quantity="1")
<i>Int1d</i>	BBCOUNT (description="BBCOUNT", quantity="1")
<i>Int1d</i>	VMSTAT (description="VMSTAT", quantity="1")
<i>Int1d</i>	VM1STAT (description="VM1STAT", quantity="1")
<i>Int1d</i>	VM2STAT (description="VM2STAT", quantity="1")
<i>Int1d</i>	VM3STAT (description="VM3STAT", quantity="1")
<i>Int1d</i>	VMSTATAFX (description="VMSTATAFX", quantity="1")
<i>Int1d</i>	SD_VALUE0 (description="SD_VALUE0", quantity="1")
<i>Int1d</i>	SD_ADDRESS0 (description="SD_ADDRESS0", quantity="1")
<i>Int1d</i>	SD_VALUE1 (description="SD_VALUE1", quantity="1")
<i>Int1d</i>	SD_ADDRESS1 (description="SD_ADDRESS1", quantity="1")
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<i>Int1d</i>	SD_ADDRESS2 (description="SD_ADDRESS2", quantity="1")
<i>Int1d</i>	SD_VALUE3 (description="SD_VALUE3", quantity="1")
<i>Int1d</i>	SD_ADDRESS3 (description="SD_ADDRESS3", quantity="1")
<i>Double1d</i>	DPUP5V (description="DPUP5V", quantity="V")
<i>Double1d</i>	DPUP15V (description="DPUP15V", quantity="V")
<i>Double1d</i>	DPUM15V (description="DPUM15V", quantity="V")
<i>Double1d</i>	DPUTEMP (description="DPUTEMP", quantity="K")
<i>Int1d</i>	CPULOAD (description="CPULOAD", quantity="1")
<i>Long1d</i>	LSLOAD (description="LSLOAD", quantity="1")
<i>Double1d</i>	DPUP2_5V (description="DPUP2_5V", quantity="V")
<i>String1d</i>	DCUDATAMODE (description="DCUDATAMODE", quantity="1")
<i>String1d</i>	DCUDATAFRMS (description="DCUDATAFRMS", quantity="1")
<i>String1d</i>	DCUDATASTAT (description="DCUDATASTAT", quantity="1")
<i>Int1d</i>	PHOTBIASDIV (description="PHOTBIASDIV", quantity="1")
<i>String1d</i>	PHOTBIASMODE (description="PHOTBIASMODE", quantity="1")
<i>Int1d</i>	PHOTMCLKDIV (description="PHOTMCLKDIV", quantity="1")
<i>Double1d</i>	PSWBIAS (description="PSWBIAS", quantity="V")
<i>Double1d</i>	PMWBIAS (description="PMWBIAS", quantity="V")
<i>Double1d</i>	PLWBIAS (description="PLWBIAS", quantity="V")
<i>Double1d</i>	TCBIAS (description="TCBIAS", quantity="V")
<i>Double1d</i>	PSWPHASE (description="PSWPHASE", quantity="deg")
<i>Double1d</i>	PMWPHASE (description="PMWPHASE", quantity="deg")
<i>Double1d</i>	PLWPHASE (description="PLWPHASE", quantity="deg")
<i>Double1d</i>	TCPHASE (description="TCPHASE", quantity="deg")
<i>Int1d</i>	PSWJFETSTAT (description="PSWJFETSTAT", quantity="1")
<i>String1d</i>	PSW_VDD_JFET1 (description="PSW_VDD_JFET1", quantity="1")

<i>String1d</i>	PSW_VDD_JFET2 (description="PSW_VDD_JFET2", quantity="1")
<i>String1d</i>	PSW_VDD_JFET3 (description="PSW_VDD_JFET3", quantity="1")
<i>String1d</i>	PSW_VDD_JFET4 (description="PSW_VDD_JFET4", quantity="1")
<i>String1d</i>	PSW_VDD_JFET5 (description="PSW_VDD_JFET5", quantity="1")
<i>String1d</i>	PSW_VDD_JFET6 (description="PSW_VDD_JFET6", quantity="1")
<i>Int1d</i>	PMLWJFETSTAT (description="PMLWJFETSTAT", quantity="1")
<i>String1d</i>	PMW_VDD_JFET1 (description="PMW_VDD_JFET1", quantity="1")
<i>String1d</i>	PMW_VDD_JFET2 (description="PMW_VDD_JFET2", quantity="1")
<i>String1d</i>	PMW_VDD_JFET3 (description="PMW_VDD_JFET3", quantity="1")
<i>String1d</i>	PMW_VDD_JFET4 (description="PMW_VDD_JFET4", quantity="1")
<i>String1d</i>	PLW_VDD_JFET1 (description="PLW_VDD_JFET1", quantity="1")
<i>String1d</i>	PLW_VDD_JFET2 (description="PLW_VDD_JFET2", quantity="1")
<i>String1d</i>	TC_VDD_JFET (description="TC_VDD_JFET", quantity="1")
<i>Double1d</i>	PSWJFET1V (description="PSWJFET1V", quantity="V")
<i>Double1d</i>	PSWJFET2V (description="PSWJFET2V", quantity="V")
<i>Double1d</i>	PSWJFET3V (description="PSWJFET3V", quantity="V")
<i>Double1d</i>	PSWJFET4V (description="PSWJFET4V", quantity="V")
<i>Double1d</i>	PSWJFET5V (description="PSWJFET5V", quantity="V")
<i>Double1d</i>	PSWJFET6V (description="PSWJFET6V", quantity="V")
<i>Double1d</i>	PMWJFET1V (description="PMWJFET1V", quantity="V")
<i>Double1d</i>	PMWJFET2V (description="PMWJFET2V", quantity="V")
<i>Double1d</i>	PMWJFET3V (description="PMWJFET3V", quantity="V")
<i>Double1d</i>	PMWJFET4V (description="PMWJFET4V", quantity="V")
<i>Double1d</i>	PLWJFET1V (description="PLWJFET1V", quantity="V")
<i>Double1d</i>	PLWJFET2V (description="PLWJFET2V", quantity="V")
<i>Double1d</i>	PHOTHTRV (description="PHOTHTRV", quantity="V")
<i>Double1d</i>	TCJFETV (description="TCJFETV", quantity="V")
<i>Int1d</i>	SPECBIASDIV (description="SPECBIASDIV", quantity="1")
<i>String1d</i>	SPECBIASMODE (description="SPECBIASMODE", quantity="1")
<i>Int1d</i>	SPECMCLKDIV (description="SPECMCLKDIV", quantity="1")
<i>Double1d</i>	SSWBIAS (description="SSWBIAS", quantity="V")
<i>Double1d</i>	SLWBIAS (description="SLWBIAS", quantity="V")
<i>Double1d</i>	SSWPHASE (description="SSWPHASE", quantity="deg")
<i>Double1d</i>	SLWPHASE (description="SLWPHASE", quantity="deg")
<i>Int1d</i>	SPECJFETSTAT (description="SPECJFETSTAT", quantity="1")
<i>String1d</i>	SLW_VDD_JFET1 (description="SLW_VDD_JFET1", quantity="1")
<i>String1d</i>	SSW_VDD_JFET1 (description="SSW_VDD_JFET1", quantity="1")
<i>String1d</i>	SSW_VDD_JFET2 (description="SSW_VDD_JFET2", quantity="1")
<i>Double1d</i>	SSWJFET1V (description="SSWJFET1V", quantity="V")
<i>Double1d</i>	SSWJFET2V (description="SSWJFET2V", quantity="V")
<i>Double1d</i>	SLWJFET1V (description="SLWJFET1V", quantity="V")
<i>Double1d</i>	SPECHTRV (description="SPECHTRV", quantity="V")

<i>Double1d</i>	TC1TEMP (description="TC1TEMP", quantity="V")
<i>Double1d</i>	TC2TEMP (description="TC2TEMP", quantity="V")
<i>Double1d</i>	TC3TEMP (description="TC3TEMP", quantity="V")
<i>Double1d</i>	BIASP5V (description="BIASP5V", quantity="V")
<i>Double1d</i>	BIASP9V (description="BIASP9V", quantity="V")
<i>Double1d</i>	BIASM9V (description="BIASM9V", quantity="V")
<i>Int1d</i>	OBSVER (description="OBSVER", quantity="1")
<i>Short1d</i>	OBSVER1 (description="OBSVER1", quantity="1")
<i>Short1d</i>	OBSVER2 (description="OBSVER2", quantity="1")
<i>String1d</i>	OBSVER3 (description="OBSVER3", quantity="1")
<i>String1d</i>	TMMODE (description="TMMODE", quantity="1")
<i>Int1d</i>	FIFO_DF_FLAG (description="FIFO_DF_FLAG", quantity="1")
<i>Double1d</i>	PLIAP5V (description="PLIAP5V", quantity="V")
<i>Double1d</i>	PLIAP9V (description="PLIAP9V", quantity="V")
<i>Double1d</i>	PLIAM9V (description="PLIAM9V", quantity="V")
<i>Double1d</i>	SLIAP5V (description="SLIAP5V", quantity="V")
<i>Double1d</i>	SLIAP9V (description="SLIAP9V", quantity="V")
<i>Double1d</i>	SLIAM9V (description="SLIAM9V", quantity="V")
<i>Double1d</i>	LIAP9TEMP (description="LIAP9TEMP", quantity="K")
<i>Double1d</i>	LIAP8TEMP (description="LIAP8TEMP", quantity="K")
<i>Double1d</i>	LIAP7TEMP (description="LIAP7TEMP", quantity="K")
<i>Double1d</i>	LIAP6TEMP (description="LIAP6TEMP", quantity="K")
<i>Double1d</i>	LIAP5TEMP (description="LIAP5TEMP", quantity="K")
<i>Double1d</i>	LIAP4TEMP (description="LIAP4TEMP", quantity="K")
<i>Double1d</i>	LIAP3TEMP (description="LIAP3TEMP", quantity="K")
<i>Double1d</i>	LIAP2TEMP (description="LIAP2TEMP", quantity="K")
<i>Double1d</i>	LIAP1TEMP (description="LIAP1TEMP", quantity="K")
<i>Double1d</i>	LIAS1TEMP (description="LIAS1TEMP", quantity="K")
<i>Double1d</i>	LIAS2TEMP (description="LIAS2TEMP", quantity="K")
<i>Double1d</i>	LIAS3TEMP (description="LIAS3TEMP", quantity="K")
<i>Double1d</i>	BIASTEMP (description="BIASTEMP", quantity="K")
<i>Double1d</i>	DAQTEMP (description="DAQTEMP", quantity="K")
<i>Int1d</i>	LIASSTAT (description="LIASSTAT", quantity="1")
<i>String1d</i>	LIAP1STAT (description="LIAP1STAT", quantity="1")
<i>String1d</i>	LIAP2STAT (description="LIAP2STAT", quantity="1")
<i>String1d</i>	LIAP3STAT (description="LIAP3STAT", quantity="1")
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<i>String1d</i>	LIAP5STAT (description="LIAP5STAT", quantity="1")
<i>String1d</i>	LIAP6STAT (description="LIAP6STAT", quantity="1")
<i>String1d</i>	LIAP7STAT (description="LIAP7STAT", quantity="1")
<i>String1d</i>	LIAP8STAT (description="LIAP8STAT", quantity="1")
<i>String1d</i>	LIAP9STAT (description="LIAP9STAT", quantity="1")

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<i>String1d</i>	LIAS3STAT (description="LIAS3STAT", quantity="1")
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<i>Int1d</i>	MCUIFCTRL (description="MCUIFCTRL", quantity="1")
<i>Int1d</i>	MCUSSDEL (description="MCUSSDEL", quantity="1")
<i>Double1d</i>	MCUP5V (description="MCUP5V", quantity="V")
<i>Double1d</i>	MCUP14V (description="MCUP14V", quantity="V")
<i>Double1d</i>	MCUM14V (description="MCUM14V", quantity="V")
<i>Double1d</i>	MCUP15V (description="MCUP15V", quantity="V")
<i>Double1d</i>	MCUM15V (description="MCUM15V", quantity="V")
<i>Double1d</i>	MCUMACTEMP (description="MCUMACTEMP", quantity="K")
<i>Double1d</i>	MCUSMECTEMP (description="MCUSMECTEMP", quantity="K")
<i>Double1d</i>	MCUBSMTEMP (description="MCUBSMTEMP", quantity="K")
<i>String1d</i>	MCUERR (description="MCUERR", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTLSW (description="MCUSCHEDCNTLSW", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTMSW (description="MCUSCHEDCNTMSW", quantity="1")
<i>Int1d</i>	MCUTM10TSAMPLE (description="MCUTM10TSAMPLE", quantity="1")
<i>String1d</i>	MCUFRAMESTART (description="MCUFRAMESTART", quantity="1")
<i>Int1d</i>	MCUTM12TSAMPLE (description="MCUTM12TSAMPLE", quantity="1")
<i>Int1d</i>	MCUFRAMES (description="MCUFRAMES", quantity="1")
<i>Int1d</i>	MCUTM14TSAMPLE (description="MCUTM14TSAMPLE", quantity="1")
<i>Int1d</i>	MCUTM15TSAMPLE (description="MCUTM15TSAMPLE", quantity="1")
<i>String1d</i>	MCUTMSTATUS (description="MCUTMSTATUS", quantity="1")
<i>String1d</i>	MCUBOOTSTAT (description="MCUBOOTSTAT", quantity="1")
<i>Int1d</i>	MCUDLOADCONF (description="MCUDLOADCONF", quantity="1")
<i>Int1d</i>	SMECLOSTCOUNT (description="SMECLOSTCOUNT", quantity="1")
<i>Int1d</i>	SMECENCPOWER (description="SMECENCPOWER", quantity="1")
<i>String1d</i>	SMECLVDTPWR (description="SMECLVDTPWR", quantity="1")
<i>String1d</i>	SMECLATCHSTAT (description="SMECLATCHSTAT", quantity="1")
<i>String1d</i>	SMECLOOPMODE (description="SMECLOOPMODE", quantity="1")
<i>Double1d</i>	SCANSTART (description="SCANSTART", quantity="cm")
<i>Double1d</i>	SCANEND (description="SCANEND", quantity="cm")
<i>Int1d</i>	SCANFSPEED (description="SCANFSPEED", quantity="1")
<i>Int1d</i>	SCANS (description="SCANS", quantity="1")
<i>String1d</i>	SCANMODE (description="SCANMODE", quantity="1")
<i>Int1d</i>	SMECKP (description="SMECKP", quantity="1")

<i>Int1d</i>	SMECKD (description="SMECKD", quantity="1")
<i>Int1d</i>	SMECDFILT (description="SMECDFILT", quantity="1")
<i>Int1d</i>	SMECKI (description="SMECKI", quantity="1")
<i>Int1d</i>	SMECINTLIMIT (description="SMECINTLIMIT", quantity="1")
<i>Int1d</i>	SMECINTTHRESH (description="SMECINTTHRESH", quantity="1")
<i>Int1d</i>	SMECRATELIMIT (description="SMECRATELIMIT", quantity="1")
<i>Int1d</i>	SMECDFILT2 (description="SMECDFILT2", quantity="1")
<i>Int1d</i>	SMECFFGAIN (description="SMECFFGAIN", quantity="1")
<i>Int1d</i>	SMECFFOFFSET (description="SMECFFOFFSET", quantity="1")
<i>Int1d</i>	SCANRSPEED (description="SCANRSPEED", quantity="1")
<i>Int1d</i>	SMECBEMFGAIN (description="SMECBEMFGAIN", quantity="1")
<i>Int1d</i>	SMECMOTORRES (description="SMECMOTORRES", quantity="1")
<i>Int1d</i>	SMECMOTORBEMF (description="SMECMOTORBEMF", quantity="1")
<i>Int1d</i>	SMECRATESCALE (description="SMECRATESCALE", quantity="1")
<i>Double1d</i>	SMECLVDTOFFSET (description="SMECLVDTOFFSET", quantity="cm")
<i>Double1d</i>	SMECLVDTSCALE (description="SMECLVDTSCALE", quantity="cm")
<i>String1d</i>	SMECSTAT (description="SMECSTAT", quantity="1")
<i>String1d</i>	SMECFLAG (description="SMECFLAG", quantity="1")
<i>String1d</i>	SMECLVDTSIGN (description="SMECLVDTSIGN", quantity="1")
<i>String1d</i>	SMECINIT (description="SMECINIT", quantity="1")
<i>String1d</i>	SMECSCANDIR (description="SMECSCANDIR", quantity="1")
<i>Short1d</i>	SMECSCANCNT (description="SMECSCANCNT", quantity="1")
<i>Double1d</i>	SMECENCPOSN (description="SMECENCPOSN", quantity="cm")
<i>Int1d</i>	SMECENC SIG1 (description="SMECENC SIG1", quantity="1")
<i>Int1d</i>	SMECENC SIG2 (description="SMECENC SIG2", quantity="1")
<i>Int1d</i>	SMECENC SIG3 (description="SMECENC SIG3", quantity="1")
<i>Double1d</i>	SMECLVDTPOSN (description="SMECLVDTPOSN", quantity="cm")
<i>Int1d</i>	SMECLVDTAC SIG (description="SMECLVDTAC SIG", quantity="1")
<i>Int1d</i>	SMECLVDTDC SIG (description="SMECLVDTDC SIG", quantity="1")
<i>Double1d</i>	SMECTRAJPOSN (description="SMECTRAJPOSN", quantity="cm")
<i>Int1d</i>	SMECDACVAL (description="SMECDACVAL", quantity="1")
<i>Double1d</i>	SMECPOSNDELTA (description="SMECPOSNDELTA", quantity="cm")
<i>Double1d</i>	SMECENC FINEPOSN (description="SMECENC FINEPOSN", quantity="cm")
<i>Int1d</i>	SMECMEANSPEED (description="SMECMEANSPEED", quantity="1")
<i>Double1d</i>	SMECSCANPOSNERR (description="SMECSCANPOSNERR", quantity="cm")
<i>Double1d</i>	SMECMOTORCURR (description="SMECMOTORCURR", quantity="A")

<i>DoubleId</i>	SMECMOTORVOLT (description="SMECMOTORVOLT", quantity="V")
<i>IntId</i>	SMECENC SIG1AMP (description="SMECENC SIG1AMP", quantity="1")
<i>IntId</i>	SMECENC SIG1OFF (description="SMECENC SIG1OFF", quantity="1")
<i>IntId</i>	SMECENC SIG2AMP (description="SMECENC SIG2AMP", quantity="1")
<i>IntId</i>	SMECENC SIG2OFF (description="SMECENC SIG2OFF", quantity="1")
<i>IntId</i>	SMECENC SIG3AMP (description="SMECENC SIG3AMP", quantity="1")
<i>IntId</i>	SMECENC SIG3OFF (description="SMECENC SIG3OFF", quantity="1")
<i>StringId</i>	CHOPSENSPWR (description="CHOPSENSPWR", quantity="1")
<i>StringId</i>	CHOPLOOPMODE (description="CHOPLOOPMODE", quantity="1")
<i>IntId</i>	CHOPPOSN (description="CHOPPOSN", quantity="1")
<i>IntId</i>	CHOPPOSN2 (description="CHOPPOSN2", quantity="1")
<i>StringId</i>	BSMMODE (description="BSMMODE", quantity="1")
<i>IntId</i>	CHOPFFOFFSET (description="CHOPFFOFFSET", quantity="1")
<i>IntId</i>	CHOPKP (description="CHOPKP", quantity="1")
<i>IntId</i>	CHOPKD (description="CHOPKD", quantity="1")
<i>IntId</i>	CHOPKI (description="CHOPKI", quantity="1")
<i>IntId</i>	CHOPINTREF (description="CHOPINTREF", quantity="1")
<i>IntId</i>	CHOPINTLIMIT (description="CHOPINTLIMIT", quantity="1")
<i>IntId</i>	CHOPFFGAIN (description="CHOPFFGAIN", quantity="1")
<i>IntId</i>	CHOPFFGAINDIFF (description="CHOPFFGAINDIFF", quantity="1")
<i>IntId</i>	CHOPDIFFTC1 (description="CHOPDIFFTC1", quantity="1")
<i>IntId</i>	CHOPDIFFTC2 (description="CHOPDIFFTC2", quantity="1")
<i>IntId</i>	CHOPRATELIMIT (description="CHOPRATELIMIT", quantity="1")
<i>IntId</i>	CHOPMOTBEMFGAIN (description="CHOPMOTBEMFGAIN", quantity="1")
<i>IntId</i>	CHOPMOTRES (description="CHOPMOTRES", quantity="1")
<i>IntId</i>	CHOPMOTIND (description="CHOPMOTIND", quantity="1")
<i>IntId</i>	CHOPRATESCALE (description="CHOPRATESCALE", quantity="1")
<i>IntId</i>	CHOPPOSNSCALE (description="CHOPPOSNSCALE", quantity="1")
<i>IntId</i>	CHOPBEMFRATFIL1 (description="CHOPBEMFRATFIL1", quantity="1")
<i>IntId</i>	CHOPBEMFRATFIL2 (description="CHOPBEMFRATFIL2", quantity="1")
<i>IntId</i>	CHOPJIGGCUPLE (description="CHOPJIGGCUPLE", quantity="1")
<i>StringId</i>	BSMSTAT (description="BSMSTAT", quantity="1")
<i>IntId</i>	CHOPPOSNERR (description="CHOPPOSNERR", quantity="1")
<i>IntId</i>	CHOPSENSSIG (description="CHOPSENSSIG", quantity="1")
<i>DoubleId</i>	CHOPDACVAL (description="CHOPDACVAL", quantity="V")

<i>Double1d</i>	CHOPMOTORCURR (description="CHOPMOTORCURR", quantity="A")
<i>Double1d</i>	CHOPMOTORVOLT (description="CHOPMOTORVOLT", quantity="V")
<i>String1d</i>	JIGGSENSPWR (description="JIGGSENSPWR", quantity="1")
<i>String1d</i>	JIGGLOOPMODE (description="JIGGLOOPMODE", quantity="1")
<i>Int1d</i>	JIGGPOSN (description="JIGGPOSN", quantity="1")
<i>Int1d</i>	JIGGPOSN2 (description="JIGGPOSN2", quantity="1")
<i>Int1d</i>	JIGGFFOFFSET (description="JIGGFFOFFSET", quantity="1")
<i>Int1d</i>	JIGGKP (description="JIGGKP", quantity="1")
<i>Int1d</i>	JIGGKD (description="JIGGKD", quantity="1")
<i>Int1d</i>	JIGGKI (description="JIGGKI", quantity="1")
<i>Int1d</i>	JIGGINTREF (description="JIGGINTREF", quantity="1")
<i>Int1d</i>	JIGGINTLIMIT (description="JIGGINTLIMIT", quantity="1")
<i>Int1d</i>	JIGGFFGAIN (description="JIGGFFGAIN", quantity="1")
<i>Int1d</i>	JIGGFFGAINDIFF (description="JIGGFFGAINDIFF", quantity="1")
<i>Int1d</i>	JIGGDIFFTC1 (description="JIGGDIFFTC1", quantity="1")
<i>Int1d</i>	JIGGDIFFTC2 (description="JIGGDIFFTC2", quantity="1")
<i>Int1d</i>	JIGGRATELIMIT (description="JIGGRATELIMIT", quantity="1")
<i>Int1d</i>	JIGGMOTBEMFGAIN (description="JIGGMOTBEMFGAIN", quantity="1")
<i>Int1d</i>	JIGGMOTRES (description="JIGGMOTRES", quantity="1")
<i>Int1d</i>	JIGGMOTIND (description="JIGGMOTIND", quantity="1")
<i>Int1d</i>	JIGGRATESCALE (description="JIGGRATESCALE", quantity="1")
<i>Int1d</i>	JIGGPOSNSCALE (description="JIGGPOSNSCALE", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL1 (description="JIGGBEMFRATFIL1", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL2 (description="JIGGBEMFRATFIL2", quantity="1")
<i>Int1d</i>	JIGGCHOPCOUPLE (description="JIGGCHOPCOUPLE", quantity="1")
<i>Int1d</i>	JIGGPOSNERR (description="JIGGPOSNERR", quantity="1")
<i>Int1d</i>	JIGGSENSSIG (description="JIGGSENSSIG", quantity="1")
<i>Double1d</i>	JIGGDACVAL (description="JIGGDACVAL", quantity="V")
<i>Double1d</i>	JIGGMOTORCURR (description="JIGGMOTORCURR", quantity="A")
<i>Double1d</i>	JIGGMOTORVOLT (description="JIGGMOTORVOLT", quantity="V")
<i>Int1d</i>	MCUPCKT10PARM05 (description="MCUPCKT10PARM05", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM01 (description="MCUPCKT10PARM01", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM02 (description="MCUPCKT10PARM02", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM03 (description="MCUPCKT10PARM03", quantity="1")

<i>Int1d</i>	MCUPCKT10PARM04 (description="MCUPCKT10PARM04", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM01 (description="MCUPCKT12PARM01", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM02 (description="MCUPCKT12PARM02", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM03 (description="MCUPCKT12PARM03", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM04 (description="MCUPCKT12PARM04", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM05 (description="MCUPCKT12PARM05", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM06 (description="MCUPCKT12PARM06", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM01 (description="MCUPCKT14PARM01", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM02 (description="MCUPCKT14PARM02", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM03 (description="MCUPCKT14PARM03", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM04 (description="MCUPCKT14PARM04", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM05 (description="MCUPCKT14PARM05", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM06 (description="MCUPCKT14PARM06", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM07 (description="MCUPCKT14PARM07", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM08 (description="MCUPCKT14PARM08", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM09 (description="MCUPCKT14PARM09", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM10 (description="MCUPCKT14PARM10", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM11 (description="MCUPCKT14PARM11", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM12 (description="MCUPCKT14PARM12", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM13 (description="MCUPCKT14PARM13", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM14 (description="MCUPCKT14PARM14", quantity="1")
<i>Int1d</i>	SCUIFSTAT (description="SCUIFSTAT", quantity="1")
<i>Int1d</i>	SCUIFCTRL (description="SCUIFCTRL", quantity="1")
<i>Int1d</i>	SCUSSDEL (description="SCUSSDEL", quantity="1")
<i>Int1d</i>	SCUSTAT (description="SCUSTAT", quantity="1")
<i>Int1d</i>	SCUTEMPSTAT (description="SCUTEMPSTAT", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT (description="SCUDCDCSTAT", quantity="1")

<i>String1d</i>	PLIABITSTAT (description="PLIABITSTAT", quantity="1")
<i>String1d</i>	SLIABITSTAT (description="SLIABITSTAT", quantity="1")
<i>String1d</i>	MCUBITSTAT (description="MCUBITSTAT", quantity="1")
<i>Double1d</i>	SCUP5V (description="SCUP5V", quantity="V")
<i>Double1d</i>	SCUP9V (description="SCUP9V", quantity="V")
<i>Double1d</i>	SCUM9V (description="SCUM9V", quantity="V")
<i>Double1d</i>	EVHSV (description="EVHSV", quantity="V")
<i>Double1d</i>	SPHSV (description="SPHSV", quantity="V")
<i>Double1d</i>	TCHTRV (description="TCHTRV", quantity="V")
<i>Double1d</i>	SPHTRV (description="SPHTRV", quantity="V")
<i>Double1d</i>	CCUTEMP (description="CCUTEMP", quantity="K")
<i>Double1d</i>	TCUTEMP (description="TCUTEMP", quantity="K")
<i>Double1d</i>	PSUTEMP1 (description="PSUTEMP1", quantity="K")
<i>Int1d</i>	SCUFRAMECONF (description="SCUFRAMECONF", quantity="1")
<i>Int1d</i>	SCUFRAMES (description="SCUFRAMES", quantity="1")
<i>Int1d</i>	SCUFRAMESTAT (description="SCUFRAMESTAT", quantity="1")
<i>Int1d</i>	SCUCTRL (description="SCUCTRL", quantity="1")
<i>Double1d</i>	PCALV (description="PCALV", quantity="V")
<i>Double1d</i>	SCAL2V (description="SCAL2V", quantity="V")
<i>Double1d</i>	SCAL4V (description="SCAL4V", quantity="V")
<i>Double1d</i>	SCUCHT2_5V (description="SCUCHT2_5V", quantity="V")
<i>Double1d</i>	SCUCHTREF (description="SCUCHTREF", quantity="V")
<i>Double1d</i>	SCUCHTGND (description="SCUCHTGND", quantity="V")
<i>Double1d</i>	PCALCURR (description="PCALCURR", quantity="A")
<i>Double1d</i>	SCAL2CURR (description="SCAL2CURR", quantity="A")
<i>Double1d</i>	SCAL4CURR (description="SCAL4CURR", quantity="A")
<i>Double1d</i>	PSUTEMP2 (description="PSUTEMP2", quantity="K")
<i>String1d</i>	SUBKSTAT (description="SUBKSTAT", quantity="1")
<i>Double1d</i>	PUMPHTRTEMP (description="PUMPHTRTEMP", quantity="K")
<i>Double1d</i>	PUMPHSTEMP (description="PUMPHSTEMP", quantity="K")
<i>Double1d</i>	EVAPHSTEMP (description="EVAPHSTEMP", quantity="K")
<i>Double1d</i>	SHUNTTEMP (description="SHUNTTEMP", quantity="K")
<i>Double1d</i>	EMCFILTEMP (description="EMCFILTEMP", quantity="K")
<i>Double1d</i>	SL0TEMP (description="SL0TEMP", quantity="K")
<i>Double1d</i>	PL0TEMP (description="PL0TEMP", quantity="K")
<i>Double1d</i>	OPTTEMP (description="OPTTEMP", quantity="K")
<i>Double1d</i>	BAFTEMP (description="BAFTEMP", quantity="K")
<i>Double1d</i>	BSMIFTEMP (description="BSMIFTEMP", quantity="K")
<i>Double1d</i>	SCAL2TEMP (description="SCAL2TEMP", quantity="K")
<i>Double1d</i>	SCAL4TEMP (description="SCAL4TEMP", quantity="K")
<i>Double1d</i>	SCALTEMP (description="SCALTEMP", quantity="K")
<i>Double1d</i>	SMECIFTEMP (description="SMECIFTEMP", quantity="K")

<i>Double1d</i>	SMECTEMP (description="SMECTEMP", quantity="K")
<i>Double1d</i>	BSMTEMP (description="BSMTEMP", quantity="K")
<i>Double1d</i>	SUBKTEMP (description="SUBKTEMP", quantity="K")
<i>Double1d</i>	SCUTHTREF (description="SCUTHTREF", quantity="V")
<i>Double1d</i>	SCUTHTGND (description="SCUTHTGND", quantity="V")
<i>Int1d</i>	LOSTTCBLOCK (description="LOSTTCBLOCK", quantity="1")
<i>Int1d</i>	LOSTEVBLOCK (description="LOSTEVBLOCK", quantity="1")
<i>Int1d</i>	LOSTHKBLOCK (description="LOSTHKBLOCK", quantity="1")
<i>Int1d</i>	LOSTSDBLOCK (description="LOSTSDBLOCK", quantity="1")
<i>Int1d</i>	LOSTNTBLOCK (description="LOSTNTBLOCK", quantity="1")
<i>Int1d</i>	LS_HP_FIFOSTAT (description="LS_HP_FIFOSTAT", quantity="1")
<i>Int1d</i>	LS_LP_FIFOSTAT (description="LS_LP_FIFOSTAT", quantity="1")
<i>String1d</i>	MCUPCKT10STAT (description="MCUPCKT10STAT", quantity="1")
<i>String1d</i>	MCUPCKT12STAT (description="MCUPCKT12STAT", quantity="1")
<i>String1d</i>	MCUPCKT14STAT (description="MCUPCKT14STAT", quantity="1")
<i>String1d</i>	MCUPCKT15STAT (description="MCUPCKT15STAT", quantity="1")
<i>String1d</i>	MCURAMINTEGRITY (description="MCURAMINTEGRITY", quantity="1")
<i>String1d</i>	MCURAMTSTPROG (description="MCURAMTSTPROG", quantity="1")
<i>String1d</i>	MCURAMTSTDATA (description="MCURAMTSTDATA", quantity="1")
<i>String1d</i>	MCUPROM2RAMCOPY (description="MCUPROM2RAMCOPY", quantity="1")
<i>String1d</i>	MCUBOOTMODE (description="MCUBOOTMODE", quantity="1")
<i>Int1d</i>	SMECSELECTTAB (description="SMECSELECTTAB", quantity="1")
<i>Int1d</i>	CREC_STEP (description="CREC_STEP", quantity="1")
<i>Int1d</i>	PTC_STAGE (description="PTC_STAGE", quantity="1")
<i>Int1d</i>	SCAL_STAGE (description="SCAL_STAGE", quantity="1")
<i>Int1d</i>	JIGGLE_STEP (description="JIGGLE_STEP", quantity="1")
<i>Int1d</i>	LOSTRPBLOCK (description="LOSTRPBLOCK", quantity="1")
<i>Int1d</i>	LIAFAILCOUNT (description="LIAFAILCOUNT", quantity="1")
<i>Int1d</i>	SCANRES (description="SCANRES", quantity="1")
<i>Int1d</i>	VM_SMECSIG1OFF (description="VM_SMECSIG1OFF", quantity="1")
<i>Int1d</i>	VM_SMECSIG2OFF (description="VM_SMECSIG2OFF", quantity="1")
<i>Int1d</i>	TABLE7_09_LWORD (description="TABLE7_09_LWORD", quantity="1")
<i>String1d</i>	PTC_GET_COMMAND (description="PTC_GET_COMMAND", quantity="1")
<i>String1d</i>	SCAL_GET_COMMAND (description="SCAL_GET_COMMAND", quantity="1")
<i>Long1d</i>	TABLE7_12 (description="TABLE7_12", quantity="1")

<i>String1d</i>	HK_MON_STATUS (description="HK_MON_STATUS", quantity="1")
<i>Int1d</i>	CHOPJIGG_DCOUPLE (description="CHOPJIGG_DCOUPLE", quantity="1")
<i>Int1d</i>	HK_02 (description="HK_02", quantity="1")
<i>Int1d</i>	HK_03 (description="HK_03", quantity="1")
<i>Int1d</i>	HK_04 (description="HK_04", quantity="1")
<i>Int1d</i>	HK_05 (description="HK_05", quantity="1")
<i>Int1d</i>	HK_06 (description="HK_06", quantity="1")
<i>Int1d</i>	HK_07 (description="HK_07", quantity="1")
<i>Int1d</i>	HK_08 (description="HK_08", quantity="1")
<i>Int1d</i>	HK_09 (description="HK_09", quantity="1")
<i>Int1d</i>	HK_10 (description="HK_10", quantity="1")
<i>Int1d</i>	HK_11 (description="HK_11", quantity="1")
<i>Int1d</i>	HK_12 (description="HK_12", quantity="1")
<i>Int1d</i>	HK_13 (description="HK_13", quantity="1")
<i>Int1d</i>	HK_14 (description="HK_14", quantity="1")
<i>Int1d</i>	HK_15 (description="HK_15", quantity="1")
<i>Int1d</i>	HK_16 (description="HK_16", quantity="1")
<i>Int1d</i>	HK_17 (description="HK_17", quantity="1")
<i>Int1d</i>	HK_18 (description="HK_18", quantity="1")
<i>Int1d</i>	HK_19 (description="HK_19", quantity="1")
<i>Int1d</i>	HK_20 (description="HK_20", quantity="1")
<i>Int1d</i>	HK_21 (description="HK_21", quantity="1")
<i>Int1d</i>	HK_22 (description="HK_22", quantity="1")
<i>Int1d</i>	HK_23 (description="HK_23", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.9. SPIRE Product Level 0.5 - Photometer Detector Timeline

<i>product (type="PDT", description="Photometer Detector Timeline")</i>	
<i>Meta-data</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")

StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
DoubleParameter	biasFreq (description="Bias frequency", quantity="Hz")
StringParameter	elecSide (description="Electronic side", quantity="Hz")
StringParameter	modelName (description="Model name attached to this product", quantity="Hz")
StringParameter	formatVersion (description="Version of product format", quantity="Hz")
StringParameter	missionConfig (description="Mission configuration", quantity="Hz")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")

StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
StringParameter	origin (description="Site that created the product", quantity="arcsec a-1")
StringParameter	type (description="Product Type Identification", quantity="arcsec a-1")
StringParameter	description (description="Name of this product", quantity="arcsec a-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in the engineering conversion", quantity="arcsec a-1")
StringParameter	level (description="The level of the product", quantity="arcsec a-1")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec a-1")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec a-1")
StringParameter	signalTable (description="Name of the signal table", quantity="arcsec a-1")
LongParameter	maskDead (description="Mask value for dead channel", quantity="arcsec a-1")
LongParameter	maskMaster (description="Mask value for master bit", quantity="arcsec a-1")
LongParameter	maskNoisy (description="Mask value for noisy channel", quantity="arcsec a-1")
LongParameter	maskSlow (description="Mask value for slow channel", quantity="arcsec a-1")
BooleanParameter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="arcsec a-1")
DoubleParameter	ratioTruncatedPLW (description="Maximum ratio of out-of-range values to total number of values in PLW data", quantity="arcsec a-1")
DoubleParameter	ratioTruncatedPMW (description="Maximum ratio of out-of-range values to total number of values in PMW data", quantity="arcsec a-1")
DoubleParameter	ratioTruncatedPSW (description="Maximum ratio of out-of-range values to total number of values in PSW data", quantity="arcsec a-1")

DoubleParameter	ratioTruncatedPTC (description="Total fraction of out-of-range values for PTC", quantity="arcsec a-1")
LongParameter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="arcsec a-1")
LongParameter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="arcsec a-1")
LongParameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="arcsec a-1")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="arcsec a-1")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="arcsec a-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
BooleanParameter	rcRollApp (description="RC roll correction applied", quantity="ms/min")
DoubleParameter	subkTempDrift (description="Drift measured by the SubK temperature probe", quantity="K")
LongParameter	maskNotChoppedToSky (description="Mask value for channel not chopped to sky", quantity="K")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="K")
DoubleParameter	plwBiasAmpl (description="PLW bias amplitude", quantity="V")
DoubleParameter	pmwBiasAmpl (description="PMW bias amplitude", quantity="V")
DoubleParameter	pswBiasAmpl (description="PSW bias amplitude", quantity="V")
DoubleParameter	ptcBiasAmpl (description="PTC bias amplitude", quantity="V")
DoubleParameter	plwBiasPhase (description="PLW bias phase", quantity="rad")
DoubleParameter	pmwBiasPhase (description="PMW bias phase", quantity="rad")
DoubleParameter	pswBiasPhase (description="PSW bias phase", quantity="rad")
DoubleParameter	ptcBiasPhase (description="PTC bias phase", quantity="rad")
StringParameter	scanSpeed (description="Speed of scan", quantity="rad")
LongParameter	scanLineNum (description="Scan line number", quantity="rad")
LongParameter	numberBadVoltageOffsetPLW (description="Number of PLW bolometers with bad voltage offset resets", quantity="rad")

LongParameter	numberBadVoltageOffsetPMW (description="Number of PMW bolometers with bad voltage offset resets", quantity="rad")
LongParameter	numberBadVoltageOffsetPSW (description="Number of PSW bolometers with bad voltage offset resets", quantity="rad")
Columns	
table dataset	(name="voltage", description="Voltages table")
Metadata	
Columns	
DoubleId	sampleTime (description="Sample time", quantity="TAI")
FloatId	PSWR1 (description="PHOTFARRAY001", quantity="V")
FloatId	PSWD16 (description="PHOTFARRAY002", quantity="V")
FloatId	PSWT1 (description="PHOTFARRAY003", quantity="V")
FloatId	PSWB16 (description="PHOTFARRAY004", quantity="V")
FloatId	PSWC15 (description="PHOTFARRAY005", quantity="V")
FloatId	PSWA15 (description="PHOTFARRAY006", quantity="V")
FloatId	PSWD15 (description="PHOTFARRAY007", quantity="V")
FloatId	PSWB15 (description="PHOTFARRAY008", quantity="V")
FloatId	PSWC14 (description="PHOTFARRAY009", quantity="V")
FloatId	PSWD14 (description="PHOTFARRAY010", quantity="V")
FloatId	PSWA14 (description="PHOTFARRAY011", quantity="V")
FloatId	PSWA13 (description="PHOTFARRAY012", quantity="V")
FloatId	PSWB14 (description="PHOTFARRAY013", quantity="V")
FloatId	PSWC13 (description="PHOTFARRAY014", quantity="V")
FloatId	PSWB13 (description="PHOTFARRAY015", quantity="V")
FloatId	PSWD13 (description="PHOTFARRAY016", quantity="V")
FloatId	PSWA12 (description="PHOTFARRAY017", quantity="V")
FloatId	PSWC12 (description="PHOTFARRAY018", quantity="V")
FloatId	PSWD12 (description="PHOTFARRAY019", quantity="V")
FloatId	PSWB12 (description="PHOTFARRAY020", quantity="V")
FloatId	PSWE11 (description="PHOTFARRAY021", quantity="V")
FloatId	PSWA11 (description="PHOTFARRAY022", quantity="V")
FloatId	PSWC11 (description="PHOTFARRAY023", quantity="V")
FloatId	PSWB11 (description="PHOTFARRAY024", quantity="V")
FloatId	PSWE1 (description="PHOTFARRAY025", quantity="V")
FloatId	PSWF1 (description="PHOTFARRAY026", quantity="V")
FloatId	PSWT2 (description="PHOTFARRAY027", quantity="V")
FloatId	PSWH1 (description="PHOTFARRAY028", quantity="V")
FloatId	PSWG1 (description="PHOTFARRAY029", quantity="V")
FloatId	PSWJ1 (description="PHOTFARRAY030", quantity="V")
FloatId	PSWH2 (description="PHOTFARRAY031", quantity="V")
FloatId	PSWF2 (description="PHOTFARRAY032", quantity="V")
FloatId	PSWJ2 (description="PHOTFARRAY033", quantity="V")

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<i>Float1d</i>	PSWH3 (description="PHOTFARRAY035", quantity="V")
<i>Float1d</i>	PSWJ3 (description="PHOTFARRAY036", quantity="V")
<i>Float1d</i>	PSWE2 (description="PHOTFARRAY037", quantity="V")
<i>Float1d</i>	PSWF3 (description="PHOTFARRAY038", quantity="V")
<i>Float1d</i>	PSWG3 (description="PHOTFARRAY039", quantity="V")
<i>Float1d</i>	PSWH4 (description="PHOTFARRAY040", quantity="V")
<i>Float1d</i>	PSWJ4 (description="PHOTFARRAY041", quantity="V")
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<i>Float1d</i>	PSWG4 (description="PHOTFARRAY044", quantity="V")
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<i>Float1d</i>	PSWE4 (description="PHOTFARRAY046", quantity="V")
<i>Float1d</i>	PSWJ5 (description="PHOTFARRAY047", quantity="V")
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<i>Float1d</i>	PSWD6 (description="PHOTFARRAY049", quantity="V")
<i>Float1d</i>	PSWB6 (description="PHOTFARRAY050", quantity="V")
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<i>Float1d</i>	PSWA5 (description="PHOTFARRAY052", quantity="V")
<i>Float1d</i>	PSWE5 (description="PHOTFARRAY053", quantity="V")
<i>Float1d</i>	PSWB5 (description="PHOTFARRAY054", quantity="V")
<i>Float1d</i>	PSWD5 (description="PHOTFARRAY055", quantity="V")
<i>Float1d</i>	PSWC4 (description="PHOTFARRAY056", quantity="V")
<i>Float1d</i>	PSWA4 (description="PHOTFARRAY057", quantity="V")
<i>Float1d</i>	PSWD4 (description="PHOTFARRAY058", quantity="V")
<i>Float1d</i>	PSWB4 (description="PHOTFARRAY059", quantity="V")
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<i>Float1d</i>	PSWA3 (description="PHOTFARRAY062", quantity="V")
<i>Float1d</i>	PSWA2 (description="PHOTFARRAY063", quantity="V")
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<i>Float1d</i>	PSWC2 (description="PHOTFARRAY065", quantity="V")
<i>Float1d</i>	PSWB2 (description="PHOTFARRAY066", quantity="V")
<i>Float1d</i>	PSWD2 (description="PHOTFARRAY067", quantity="V")
<i>Float1d</i>	PSWA1 (description="PHOTFARRAY068", quantity="V")
<i>Float1d</i>	PSWC1 (description="PHOTFARRAY069", quantity="V")
<i>Float1d</i>	PSWB1 (description="PHOTFARRAY070", quantity="V")
<i>Float1d</i>	PSWDP1 (description="PHOTFARRAY071", quantity="V")
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<i>Float1d</i>	PSWE12 (description="PHOTFARRAY075", quantity="V")

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<i>FloatId</i>	PSWE13 (description="PHOTFARRAY079", quantity="V")
<i>FloatId</i>	PSWJ12 (description="PHOTFARRAY080", quantity="V")
<i>FloatId</i>	PSWH13 (description="PHOTFARRAY081", quantity="V")
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<i>FloatId</i>	PSWE14 (description="PHOTFARRAY084", quantity="V")
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<i>FloatId</i>	PSWH14 (description="PHOTFARRAY086", quantity="V")
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<i>FloatId</i>	PSWH15 (description="PHOTFARRAY090", quantity="V")
<i>FloatId</i>	PSWJ15 (description="PHOTFARRAY091", quantity="V")
<i>FloatId</i>	PSWG15 (description="PHOTFARRAY092", quantity="V")
<i>FloatId</i>	PSWH16 (description="PHOTFARRAY093", quantity="V")
<i>FloatId</i>	PSWDP2 (description="PHOTFARRAY094", quantity="V")
<i>FloatId</i>	PSWF16 (description="PHOTFARRAY095", quantity="V")
<i>FloatId</i>	PSWE15 (description="PHOTFARRAY096", quantity="V")
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<i>FloatId</i>	PSWE8 (description="PHOTFARRAY110", quantity="V")
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<i>FloatId</i>	PLWA8 (description="PHOTFARRAY146", quantity="V")
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<i>FloatId</i>	PLWB7 (description="PHOTFARRAY152", quantity="V")
<i>FloatId</i>	PLWC7 (description="PHOTFARRAY153", quantity="V")
<i>FloatId</i>	PLWB5 (description="PHOTFARRAY154", quantity="V")
<i>FloatId</i>	PLWB6 (description="PHOTFARRAY155", quantity="V")
<i>FloatId</i>	PLWA5 (description="PHOTFARRAY156", quantity="V")
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<i>FloatId</i>	PLWB2 (description="PHOTFARRAY162", quantity="V")
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<i>FloatId</i>	PLWA4 (description="PHOTFARRAY165", quantity="V")
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<i>FloatId</i>	PLWA2 (description="PHOTFARRAY168", quantity="V")
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<i>FloatId</i>	PLWD1 (description="PHOTFARRAY173", quantity="V")
<i>FloatId</i>	PLWD2 (description="PHOTFARRAY174", quantity="V")
<i>FloatId</i>	PLWD3 (description="PHOTFARRAY175", quantity="V")
<i>FloatId</i>	PLWD4 (description="PHOTFARRAY176", quantity="V")
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<i>Float1d</i>	PMWC11 (description="PHOTFARRAY204", quantity="V")
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<i>Float1d</i>	PMWD10 (description="PHOTFARRAY207", quantity="V")
<i>Float1d</i>	PMWB9 (description="PHOTFARRAY208", quantity="V")
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<i>Float1d</i>	PMWE1 (description="PHOTFARRAY220", quantity="V")
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<i>FloatId</i>	PMWF12 (description="PHOTFARRAY247", quantity="V")
<i>FloatId</i>	PMWG13 (description="PHOTFARRAY248", quantity="V")
<i>FloatId</i>	PMWDP2 (description="PHOTFARRAY249", quantity="V")
<i>FloatId</i>	PMWE7 (description="PHOTFARRAY250", quantity="V")
<i>FloatId</i>	PMWD7 (description="PHOTFARRAY251", quantity="V")
<i>FloatId</i>	PMWF7 (description="PHOTFARRAY252", quantity="V")
<i>FloatId</i>	PMWE8 (description="PHOTFARRAY253", quantity="V")
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<i>FloatId</i>	PMWF8 (description="PHOTFARRAY255", quantity="V")
<i>FloatId</i>	PMWE9 (description="PHOTFARRAY256", quantity="V")
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<i>FloatId</i>	PMWG10 (description="PHOTFARRAY261", quantity="V")
<i>FloatId</i>	PMWC4 (description="PHOTFARRAY262", quantity="V")
<i>FloatId</i>	PMWB3 (description="PHOTFARRAY263", quantity="V")
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<i>FloatId</i>	PMWB1 (description="PHOTFARRAY270", quantity="V")
<i>FloatId</i>	PMWA1 (description="PHOTFARRAY271", quantity="V")
<i>FloatId</i>	PMWDP1 (description="PHOTFARRAY272", quantity="V")
<i>FloatId</i>	PMWC1 (description="PHOTFARRAY273", quantity="V")
<i>FloatId</i>	PMWA7 (description="PHOTFARRAY274", quantity="V")
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<i>FloatId</i>	PMWB5 (description="PHOTFARRAY279", quantity="V")
<i>FloatId</i>	PMWC6 (description="PHOTFARRAY280", quantity="V")
<i>FloatId</i>	PMWD6 (description="PHOTFARRAY281", quantity="V")
<i>FloatId</i>	PMWB4 (description="PHOTFARRAY282", quantity="V")
<i>FloatId</i>	PMWC5 (description="PHOTFARRAY283", quantity="V")
<i>FloatId</i>	PMWD4 (description="PHOTFARRAY284", quantity="V")
<i>FloatId</i>	PMWA4 (description="PHOTFARRAY285", quantity="V")

<i>FloatId</i>	PTCP1 (description="PHOTFARRAY286", quantity="V")
<i>FloatId</i>	PTCP2 (description="PHOTFARRAY287", quantity="V")
<i>FloatId</i>	PTCP3 (description="PHOTFARRAY288", quantity="V")
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<i>table dataset</i>	Dataset similar to the one above with (name="resistance", description="Resistances table")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="quality", description="Quality control metric quantities")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="temperature", description="Temperature")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.10. SPIRE Product Level 0.5 - Photometer Offset Timeline

<i>product (type="POT", description="Photometer Offset Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")

StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
StringParameter	origin (description="Site that created the product", quantity="arcsec a-1")
StringParameter	type (description="Product Type Identification", quantity="arcsec a-1")
StringParameter	description (description="Name of this product", quantity="arcsec a-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in the engineering conversion", quantity="arcsec a-1")
StringParameter	level (description="The level of the product", quantity="arcsec a-1")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec a-1")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec a-1")
LongParameter	maskMaster (description="Mask value for master bit", quantity="arcsec a-1")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="arcsec a-1")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="arcsec a-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="ms/min")
StringParameter	scanSpeed (description="Speed of scan", quantity="ms/min")
<i>Columns</i>	
<i>table dataset</i>	(name="signal", description="Signal timelines")
<i>Metadata</i>	
<i>Columns</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>IntId</i>	PSWR1 (description="PHOTOFF001", quantity="1")
<i>IntId</i>	PSWD16 (description="PHOTOFF002", quantity="1")

<i>Int1d</i>	PSWT1 (description="PHOTOFF003", quantity="1")
<i>Int1d</i>	PSWB16 (description="PHOTOFF004", quantity="1")
<i>Int1d</i>	PSWC15 (description="PHOTOFF005", quantity="1")
<i>Int1d</i>	PSWA15 (description="PHOTOFF006", quantity="1")
<i>Int1d</i>	PSWD15 (description="PHOTOFF007", quantity="1")
<i>Int1d</i>	PSWB15 (description="PHOTOFF008", quantity="1")
<i>Int1d</i>	PSWC14 (description="PHOTOFF009", quantity="1")
<i>Int1d</i>	PSWD14 (description="PHOTOFF010", quantity="1")
<i>Int1d</i>	PSWA14 (description="PHOTOFF011", quantity="1")
<i>Int1d</i>	PSWA13 (description="PHOTOFF012", quantity="1")
<i>Int1d</i>	PSWB14 (description="PHOTOFF013", quantity="1")
<i>Int1d</i>	PSWC13 (description="PHOTOFF014", quantity="1")
<i>Int1d</i>	PSWB13 (description="PHOTOFF015", quantity="1")
<i>Int1d</i>	PSWD13 (description="PHOTOFF016", quantity="1")
<i>Int1d</i>	PSWA12 (description="PHOTOFF017", quantity="1")
<i>Int1d</i>	PSWC12 (description="PHOTOFF018", quantity="1")
<i>Int1d</i>	PSWD12 (description="PHOTOFF019", quantity="1")
<i>Int1d</i>	PSWB12 (description="PHOTOFF020", quantity="1")
<i>Int1d</i>	PSWE11 (description="PHOTOFF021", quantity="1")
<i>Int1d</i>	PSWA11 (description="PHOTOFF022", quantity="1")
<i>Int1d</i>	PSWC11 (description="PHOTOFF023", quantity="1")
<i>Int1d</i>	PSWB11 (description="PHOTOFF024", quantity="1")
<i>Int1d</i>	PSWE1 (description="PHOTOFF025", quantity="1")
<i>Int1d</i>	PSWF1 (description="PHOTOFF026", quantity="1")
<i>Int1d</i>	PSWT2 (description="PHOTOFF027", quantity="1")
<i>Int1d</i>	PSWH1 (description="PHOTOFF028", quantity="1")
<i>Int1d</i>	PSWG1 (description="PHOTOFF029", quantity="1")
<i>Int1d</i>	PSWJ1 (description="PHOTOFF030", quantity="1")
<i>Int1d</i>	PSWH2 (description="PHOTOFF031", quantity="1")
<i>Int1d</i>	PSWF2 (description="PHOTOFF032", quantity="1")
<i>Int1d</i>	PSWJ2 (description="PHOTOFF033", quantity="1")
<i>Int1d</i>	PSWG2 (description="PHOTOFF034", quantity="1")
<i>Int1d</i>	PSWH3 (description="PHOTOFF035", quantity="1")
<i>Int1d</i>	PSWJ3 (description="PHOTOFF036", quantity="1")
<i>Int1d</i>	PSWE2 (description="PHOTOFF037", quantity="1")
<i>Int1d</i>	PSWF3 (description="PHOTOFF038", quantity="1")
<i>Int1d</i>	PSWG3 (description="PHOTOFF039", quantity="1")
<i>Int1d</i>	PSWH4 (description="PHOTOFF040", quantity="1")
<i>Int1d</i>	PSWJ4 (description="PHOTOFF041", quantity="1")
<i>Int1d</i>	PSWE3 (description="PHOTOFF042", quantity="1")
<i>Int1d</i>	PSWF4 (description="PHOTOFF043", quantity="1")
<i>Int1d</i>	PSWG4 (description="PHOTOFF044", quantity="1")

<i>Int1d</i>	PSWH5 (description="PHOTOFF045", quantity="1")
<i>Int1d</i>	PSWE4 (description="PHOTOFF046", quantity="1")
<i>Int1d</i>	PSWJ5 (description="PHOTOFF047", quantity="1")
<i>Int1d</i>	PSWF5 (description="PHOTOFF048", quantity="1")
<i>Int1d</i>	PSWD6 (description="PHOTOFF049", quantity="1")
<i>Int1d</i>	PSWB6 (description="PHOTOFF050", quantity="1")
<i>Int1d</i>	PSWC5 (description="PHOTOFF051", quantity="1")
<i>Int1d</i>	PSWA5 (description="PHOTOFF052", quantity="1")
<i>Int1d</i>	PSWE5 (description="PHOTOFF053", quantity="1")
<i>Int1d</i>	PSWB5 (description="PHOTOFF054", quantity="1")
<i>Int1d</i>	PSWD5 (description="PHOTOFF055", quantity="1")
<i>Int1d</i>	PSWC4 (description="PHOTOFF056", quantity="1")
<i>Int1d</i>	PSWA4 (description="PHOTOFF057", quantity="1")
<i>Int1d</i>	PSWD4 (description="PHOTOFF058", quantity="1")
<i>Int1d</i>	PSWB4 (description="PHOTOFF059", quantity="1")
<i>Int1d</i>	PSWC3 (description="PHOTOFF060", quantity="1")
<i>Int1d</i>	PSWB3 (description="PHOTOFF061", quantity="1")
<i>Int1d</i>	PSWA3 (description="PHOTOFF062", quantity="1")
<i>Int1d</i>	PSWA2 (description="PHOTOFF063", quantity="1")
<i>Int1d</i>	PSWD3 (description="PHOTOFF064", quantity="1")
<i>Int1d</i>	PSWC2 (description="PHOTOFF065", quantity="1")
<i>Int1d</i>	PSWB2 (description="PHOTOFF066", quantity="1")
<i>Int1d</i>	PSWD2 (description="PHOTOFF067", quantity="1")
<i>Int1d</i>	PSWA1 (description="PHOTOFF068", quantity="1")
<i>Int1d</i>	PSWC1 (description="PHOTOFF069", quantity="1")
<i>Int1d</i>	PSWB1 (description="PHOTOFF070", quantity="1")
<i>Int1d</i>	PSWDP1 (description="PHOTOFF071", quantity="1")
<i>Int1d</i>	PSWD1 (description="PHOTOFF072", quantity="1")
<i>Int1d</i>	PSWF12 (description="PHOTOFF073", quantity="1")
<i>Int1d</i>	PSWJ11 (description="PHOTOFF074", quantity="1")
<i>Int1d</i>	PSWE12 (description="PHOTOFF075", quantity="1")
<i>Int1d</i>	PSWH12 (description="PHOTOFF076", quantity="1")
<i>Int1d</i>	PSWG12 (description="PHOTOFF077", quantity="1")
<i>Int1d</i>	PSWF13 (description="PHOTOFF078", quantity="1")
<i>Int1d</i>	PSWE13 (description="PHOTOFF079", quantity="1")
<i>Int1d</i>	PSWJ12 (description="PHOTOFF080", quantity="1")
<i>Int1d</i>	PSWH13 (description="PHOTOFF081", quantity="1")
<i>Int1d</i>	PSWG13 (description="PHOTOFF082", quantity="1")
<i>Int1d</i>	PSWF14 (description="PHOTOFF083", quantity="1")
<i>Int1d</i>	PSWE14 (description="PHOTOFF084", quantity="1")
<i>Int1d</i>	PSWJ13 (description="PHOTOFF085", quantity="1")
<i>Int1d</i>	PSWH14 (description="PHOTOFF086", quantity="1")

<i>Int1d</i>	PSWG14 (description="PHOTOFF087", quantity="1")
<i>Int1d</i>	PSWJ14 (description="PHOTOFF088", quantity="1")
<i>Int1d</i>	PSWF15 (description="PHOTOFF089", quantity="1")
<i>Int1d</i>	PSWH15 (description="PHOTOFF090", quantity="1")
<i>Int1d</i>	PSWJ15 (description="PHOTOFF091", quantity="1")
<i>Int1d</i>	PSWG15 (description="PHOTOFF092", quantity="1")
<i>Int1d</i>	PSWH16 (description="PHOTOFF093", quantity="1")
<i>Int1d</i>	PSWDP2 (description="PHOTOFF094", quantity="1")
<i>Int1d</i>	PSWF16 (description="PHOTOFF095", quantity="1")
<i>Int1d</i>	PSWE15 (description="PHOTOFF096", quantity="1")
<i>Int1d</i>	PSWD11 (description="PHOTOFF097", quantity="1")
<i>Int1d</i>	PSWA10 (description="PHOTOFF098", quantity="1")
<i>Int1d</i>	PSWE10 (description="PHOTOFF099", quantity="1")
<i>Int1d</i>	PSWC10 (description="PHOTOFF100", quantity="1")
<i>Int1d</i>	PSWB10 (description="PHOTOFF101", quantity="1")
<i>Int1d</i>	PSWD10 (description="PHOTOFF102", quantity="1")
<i>Int1d</i>	PSWA9 (description="PHOTOFF103", quantity="1")
<i>Int1d</i>	PSWE9 (description="PHOTOFF104", quantity="1")
<i>Int1d</i>	PSWC9 (description="PHOTOFF105", quantity="1")
<i>Int1d</i>	PSWB9 (description="PHOTOFF106", quantity="1")
<i>Int1d</i>	PSWD9 (description="PHOTOFF107", quantity="1")
<i>Int1d</i>	PSWA8 (description="PHOTOFF108", quantity="1")
<i>Int1d</i>	PSWC8 (description="PHOTOFF109", quantity="1")
<i>Int1d</i>	PSWE8 (description="PHOTOFF110", quantity="1")
<i>Int1d</i>	PSWD8 (description="PHOTOFF111", quantity="1")
<i>Int1d</i>	PSWB8 (description="PHOTOFF112", quantity="1")
<i>Int1d</i>	PSWC7 (description="PHOTOFF113", quantity="1")
<i>Int1d</i>	PSWE7 (description="PHOTOFF114", quantity="1")
<i>Int1d</i>	PSWA7 (description="PHOTOFF115", quantity="1")
<i>Int1d</i>	PSWD7 (description="PHOTOFF116", quantity="1")
<i>Int1d</i>	PSWB7 (description="PHOTOFF117", quantity="1")
<i>Int1d</i>	PSWC6 (description="PHOTOFF118", quantity="1")
<i>Int1d</i>	PSWE6 (description="PHOTOFF119", quantity="1")
<i>Int1d</i>	PSWA6 (description="PHOTOFF120", quantity="1")
<i>Int1d</i>	PSWG5 (description="PHOTOFF121", quantity="1")
<i>Int1d</i>	PSWH6 (description="PHOTOFF122", quantity="1")
<i>Int1d</i>	PSWJ6 (description="PHOTOFF123", quantity="1")
<i>Int1d</i>	PSWF6 (description="PHOTOFF124", quantity="1")
<i>Int1d</i>	PSWG6 (description="PHOTOFF125", quantity="1")
<i>Int1d</i>	PSWH7 (description="PHOTOFF126", quantity="1")
<i>Int1d</i>	PSWF7 (description="PHOTOFF127", quantity="1")
<i>Int1d</i>	PSWJ7 (description="PHOTOFF128", quantity="1")

<i>Int1d</i>	PSWG7 (description="PHOTOFF129", quantity="1")
<i>Int1d</i>	PSWH8 (description="PHOTOFF130", quantity="1")
<i>Int1d</i>	PSWF8 (description="PHOTOFF131", quantity="1")
<i>Int1d</i>	PSWG8 (description="PHOTOFF132", quantity="1")
<i>Int1d</i>	PSWJ8 (description="PHOTOFF133", quantity="1")
<i>Int1d</i>	PSWF9 (description="PHOTOFF134", quantity="1")
<i>Int1d</i>	PSWH9 (description="PHOTOFF135", quantity="1")
<i>Int1d</i>	PSWG9 (description="PHOTOFF136", quantity="1")
<i>Int1d</i>	PSWJ9 (description="PHOTOFF137", quantity="1")
<i>Int1d</i>	PSWF10 (description="PHOTOFF138", quantity="1")
<i>Int1d</i>	PSWH10 (description="PHOTOFF139", quantity="1")
<i>Int1d</i>	PSWG10 (description="PHOTOFF140", quantity="1")
<i>Int1d</i>	PSWF11 (description="PHOTOFF141", quantity="1")
<i>Int1d</i>	PSWJ10 (description="PHOTOFF142", quantity="1")
<i>Int1d</i>	PSWH11 (description="PHOTOFF143", quantity="1")
<i>Int1d</i>	PSWG11 (description="PHOTOFF144", quantity="1")
<i>Int1d</i>	PLWR1 (description="PHOTOFF145", quantity="1")
<i>Int1d</i>	PLWA8 (description="PHOTOFF146", quantity="1")
<i>Int1d</i>	PLWA7 (description="PHOTOFF147", quantity="1")
<i>Int1d</i>	PLWA6 (description="PHOTOFF148", quantity="1")
<i>Int1d</i>	PLWA9 (description="PHOTOFF149", quantity="1")
<i>Int1d</i>	PLWC9 (description="PHOTOFF150", quantity="1")
<i>Int1d</i>	PLWB8 (description="PHOTOFF151", quantity="1")
<i>Int1d</i>	PLWB7 (description="PHOTOFF152", quantity="1")
<i>Int1d</i>	PLWC7 (description="PHOTOFF153", quantity="1")
<i>Int1d</i>	PLWB5 (description="PHOTOFF154", quantity="1")
<i>Int1d</i>	PLWB6 (description="PHOTOFF155", quantity="1")
<i>Int1d</i>	PLWA5 (description="PHOTOFF156", quantity="1")
<i>Int1d</i>	PLWT1 (description="PHOTOFF157", quantity="1")
<i>Int1d</i>	PLWB4 (description="PHOTOFF158", quantity="1")
<i>Int1d</i>	PLWC4 (description="PHOTOFF159", quantity="1")
<i>Int1d</i>	PLWB3 (description="PHOTOFF160", quantity="1")
<i>Int1d</i>	PLWC2 (description="PHOTOFF161", quantity="1")
<i>Int1d</i>	PLWB2 (description="PHOTOFF162", quantity="1")
<i>Int1d</i>	PLWB1 (description="PHOTOFF163", quantity="1")
<i>Int1d</i>	PLWA3 (description="PHOTOFF164", quantity="1")
<i>Int1d</i>	PLWA4 (description="PHOTOFF165", quantity="1")
<i>Int1d</i>	PLWA1 (description="PHOTOFF166", quantity="1")
<i>Int1d</i>	PLWDP1 (description="PHOTOFF167", quantity="1")
<i>Int1d</i>	PLWA2 (description="PHOTOFF168", quantity="1")
<i>Int1d</i>	PLWE1 (description="PHOTOFF169", quantity="1")
<i>Int1d</i>	PLWE2 (description="PHOTOFF170", quantity="1")

<i>Int1d</i>	PLWE3 (description="PHOTOFF171", quantity="1")
<i>Int1d</i>	PLWE4 (description="PHOTOFF172", quantity="1")
<i>Int1d</i>	PLWD1 (description="PHOTOFF173", quantity="1")
<i>Int1d</i>	PLWD2 (description="PHOTOFF174", quantity="1")
<i>Int1d</i>	PLWD3 (description="PHOTOFF175", quantity="1")
<i>Int1d</i>	PLWD4 (description="PHOTOFF176", quantity="1")
<i>Int1d</i>	PLWC1 (description="PHOTOFF177", quantity="1")
<i>Int1d</i>	PLWC3 (description="PHOTOFF178", quantity="1")
<i>Int1d</i>	PLWC5 (description="PHOTOFF179", quantity="1")
<i>Int1d</i>	PLWT2 (description="PHOTOFF180", quantity="1")
<i>Int1d</i>	PLWE5 (description="PHOTOFF181", quantity="1")
<i>Int1d</i>	PLWC6 (description="PHOTOFF182", quantity="1")
<i>Int1d</i>	PLWC8 (description="PHOTOFF183", quantity="1")
<i>Int1d</i>	PLWD5 (description="PHOTOFF184", quantity="1")
<i>Int1d</i>	PLWD6 (description="PHOTOFF185", quantity="1")
<i>Int1d</i>	PLWD7 (description="PHOTOFF186", quantity="1")
<i>Int1d</i>	PLWD8 (description="PHOTOFF187", quantity="1")
<i>Int1d</i>	PLWE7 (description="PHOTOFF188", quantity="1")
<i>Int1d</i>	PLWE6 (description="PHOTOFF189", quantity="1")
<i>Int1d</i>	PLWE8 (description="PHOTOFF190", quantity="1")
<i>Int1d</i>	PLWDP2 (description="PHOTOFF191", quantity="1")
<i>Int1d</i>	PLWE9 (description="PHOTOFF192", quantity="1")
<i>Int1d</i>	PMWA13 (description="PHOTOFF193", quantity="1")
<i>Int1d</i>	PMWT1 (description="PHOTOFF194", quantity="1")
<i>Int1d</i>	PMWB12 (description="PHOTOFF195", quantity="1")
<i>Int1d</i>	PMWC13 (description="PHOTOFF196", quantity="1")
<i>Int1d</i>	PMWA12 (description="PHOTOFF197", quantity="1")
<i>Int1d</i>	PMWD12 (description="PHOTOFF198", quantity="1")
<i>Int1d</i>	PMWC12 (description="PHOTOFF199", quantity="1")
<i>Int1d</i>	PMWB11 (description="PHOTOFF200", quantity="1")
<i>Int1d</i>	PMWA11 (description="PHOTOFF201", quantity="1")
<i>Int1d</i>	PMWE13 (description="PHOTOFF202", quantity="1")
<i>Int1d</i>	PMWD11 (description="PHOTOFF203", quantity="1")
<i>Int1d</i>	PMWC11 (description="PHOTOFF204", quantity="1")
<i>Int1d</i>	PMWB10 (description="PHOTOFF205", quantity="1")
<i>Int1d</i>	PMWA10 (description="PHOTOFF206", quantity="1")
<i>Int1d</i>	PMWD10 (description="PHOTOFF207", quantity="1")
<i>Int1d</i>	PMWB9 (description="PHOTOFF208", quantity="1")
<i>Int1d</i>	PMWC10 (description="PHOTOFF209", quantity="1")
<i>Int1d</i>	PMWC9 (description="PHOTOFF210", quantity="1")
<i>Int1d</i>	PMWA9 (description="PHOTOFF211", quantity="1")
<i>Int1d</i>	PMWB8 (description="PHOTOFF212", quantity="1")

<i>Int1d</i>	PMWA8 (description="PHOTOFF213", quantity="1")
<i>Int1d</i>	PMWD8 (description="PHOTOFF214", quantity="1")
<i>Int1d</i>	PMWC8 (description="PHOTOFF215", quantity="1")
<i>Int1d</i>	PMWB7 (description="PHOTOFF216", quantity="1")
<i>Int1d</i>	PMWR1 (description="PHOTOFF217", quantity="1")
<i>Int1d</i>	PMWG1 (description="PHOTOFF218", quantity="1")
<i>Int1d</i>	PMWT2 (description="PHOTOFF219", quantity="1")
<i>Int1d</i>	PMWE1 (description="PHOTOFF220", quantity="1")
<i>Int1d</i>	PMWD1 (description="PHOTOFF221", quantity="1")
<i>Int1d</i>	PMWF1 (description="PHOTOFF222", quantity="1")
<i>Int1d</i>	PMWE2 (description="PHOTOFF223", quantity="1")
<i>Int1d</i>	PMWG2 (description="PHOTOFF224", quantity="1")
<i>Int1d</i>	PMWF2 (description="PHOTOFF225", quantity="1")
<i>Int1d</i>	PMWG3 (description="PHOTOFF226", quantity="1")
<i>Int1d</i>	PMWE3 (description="PHOTOFF227", quantity="1")
<i>Int1d</i>	PMWD3 (description="PHOTOFF228", quantity="1")
<i>Int1d</i>	PMWF3 (description="PHOTOFF229", quantity="1")
<i>Int1d</i>	PMWG4 (description="PHOTOFF230", quantity="1")
<i>Int1d</i>	PMWE4 (description="PHOTOFF231", quantity="1")
<i>Int1d</i>	PMWF4 (description="PHOTOFF232", quantity="1")
<i>Int1d</i>	PMWE5 (description="PHOTOFF233", quantity="1")
<i>Int1d</i>	PMWD5 (description="PHOTOFF234", quantity="1")
<i>Int1d</i>	PMWF5 (description="PHOTOFF235", quantity="1")
<i>Int1d</i>	PMWG5 (description="PHOTOFF236", quantity="1")
<i>Int1d</i>	PMWE6 (description="PHOTOFF237", quantity="1")
<i>Int1d</i>	PMWG6 (description="PHOTOFF238", quantity="1")
<i>Int1d</i>	PMWF6 (description="PHOTOFF239", quantity="1")
<i>Int1d</i>	PMWG7 (description="PHOTOFF240", quantity="1")
<i>Int1d</i>	PMWF10 (description="PHOTOFF241", quantity="1")
<i>Int1d</i>	PMWE11 (description="PHOTOFF242", quantity="1")
<i>Int1d</i>	PMWG11 (description="PHOTOFF243", quantity="1")
<i>Int1d</i>	PMWF11 (description="PHOTOFF244", quantity="1")
<i>Int1d</i>	PMWE12 (description="PHOTOFF245", quantity="1")
<i>Int1d</i>	PMWG12 (description="PHOTOFF246", quantity="1")
<i>Int1d</i>	PMWF12 (description="PHOTOFF247", quantity="1")
<i>Int1d</i>	PMWG13 (description="PHOTOFF248", quantity="1")
<i>Int1d</i>	PMWDP2 (description="PHOTOFF249", quantity="1")
<i>Int1d</i>	PMWE7 (description="PHOTOFF250", quantity="1")
<i>Int1d</i>	PMWD7 (description="PHOTOFF251", quantity="1")
<i>Int1d</i>	PMWF7 (description="PHOTOFF252", quantity="1")
<i>Int1d</i>	PMWE8 (description="PHOTOFF253", quantity="1")
<i>Int1d</i>	PMWG8 (description="PHOTOFF254", quantity="1")

<i>Int1d</i>	PMWF8 (description="PHOTOFF255", quantity="1")
<i>Int1d</i>	PMWE9 (description="PHOTOFF256", quantity="1")
<i>Int1d</i>	PMWG9 (description="PHOTOFF257", quantity="1")
<i>Int1d</i>	PMWD9 (description="PHOTOFF258", quantity="1")
<i>Int1d</i>	PMWF9 (description="PHOTOFF259", quantity="1")
<i>Int1d</i>	PMWE10 (description="PHOTOFF260", quantity="1")
<i>Int1d</i>	PMWG10 (description="PHOTOFF261", quantity="1")
<i>Int1d</i>	PMWC4 (description="PHOTOFF262", quantity="1")
<i>Int1d</i>	PMWB3 (description="PHOTOFF263", quantity="1")
<i>Int1d</i>	PMWC3 (description="PHOTOFF264", quantity="1")
<i>Int1d</i>	PMWB2 (description="PHOTOFF265", quantity="1")
<i>Int1d</i>	PMWD2 (description="PHOTOFF266", quantity="1")
<i>Int1d</i>	PMWA3 (description="PHOTOFF267", quantity="1")
<i>Int1d</i>	PMWA2 (description="PHOTOFF268", quantity="1")
<i>Int1d</i>	PMWC2 (description="PHOTOFF269", quantity="1")
<i>Int1d</i>	PMWB1 (description="PHOTOFF270", quantity="1")
<i>Int1d</i>	PMWA1 (description="PHOTOFF271", quantity="1")
<i>Int1d</i>	PMWDP1 (description="PHOTOFF272", quantity="1")
<i>Int1d</i>	PMWC1 (description="PHOTOFF273", quantity="1")
<i>Int1d</i>	PMWA7 (description="PHOTOFF274", quantity="1")
<i>Int1d</i>	PMWA6 (description="PHOTOFF275", quantity="1")
<i>Int1d</i>	PMWB6 (description="PHOTOFF276", quantity="1")
<i>Int1d</i>	PMWC7 (description="PHOTOFF277", quantity="1")
<i>Int1d</i>	PMWA5 (description="PHOTOFF278", quantity="1")
<i>Int1d</i>	PMWB5 (description="PHOTOFF279", quantity="1")
<i>Int1d</i>	PMWC6 (description="PHOTOFF280", quantity="1")
<i>Int1d</i>	PMWD6 (description="PHOTOFF281", quantity="1")
<i>Int1d</i>	PMWB4 (description="PHOTOFF282", quantity="1")
<i>Int1d</i>	PMWC5 (description="PHOTOFF283", quantity="1")
<i>Int1d</i>	PMWD4 (description="PHOTOFF284", quantity="1")
<i>Int1d</i>	PMWA4 (description="PHOTOFF285", quantity="1")
<i>Int1d</i>	PTCP1 (description="PHOTOFF286", quantity="1")
<i>Int1d</i>	PTCP2 (description="PHOTOFF287", quantity="1")
<i>Int1d</i>	PTCP3 (description="PHOTOFF288", quantity="1")
<i>Int1d</i>	adcFlags (description="PHOTOFFADCFLGS", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.11. SPIRE Product Level 0.5 - Photometer Detector Timeline

<i>product (type="PDT", description="Photometer Detector Timeline")</i>	
Meta- data	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
DoubleParameter	biasFreq (description="Bias frequency", quantity="Hz")

StringParameter	elecSide (description="Electronic side", quantity="Hz")
StringParameter	modelName (description="Model name attached to this product", quantity="Hz")
StringParameter	formatVersion (description="Version of product format", quantity="Hz")
StringParameter	missionConfig (description="Mission configuration", quantity="Hz")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
StringParameter	origin (description="Site that created the product", quantity="arcsec a-1")
StringParameter	type (description="Product Type Identification", quantity="arcsec a-1")
StringParameter	description (description="Name of this product", quantity="arcsec a-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in the engineering conversion", quantity="arcsec a-1")
StringParameter	level (description="The level of the product", quantity="arcsec a-1")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec a-1")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec a-1")
StringParameter	signalTable (description="Name of the signal table", quantity="arcsec a-1")
LongParameter	maskDead (description="Mask value for dead channel", quantity="arcsec a-1")
LongParameter	maskMaster (description="Mask value for master bit", quantity="arcsec a-1")
LongParameter	maskNoisy (description="Mask value for noisy channel", quantity="arcsec a-1")

LongParameter	maskSlow (description="Mask value for slow channel", quantity="arcsec a-1")
BooleanParameter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="arcsec a-1")
DoubleParameter	ratioTruncatedPLW (description="Maximum ratio of out-of-range values to total number of values in PLW data", quantity="arcsec a-1")
DoubleParameter	ratioTruncatedPMW (description="Maximum ratio of out-of-range values to total number of values in PMW data", quantity="arcsec a-1")
DoubleParameter	ratioTruncatedPSW (description="Maximum ratio of out-of-range values to total number of values in PSW data", quantity="arcsec a-1")
DoubleParameter	ratioTruncatedPTC (description="Total fraction of out-of-range values for PTC", quantity="arcsec a-1")
LongParameter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="arcsec a-1")
LongParameter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="arcsec a-1")
LongParameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="arcsec a-1")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="arcsec a-1")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="arcsec a-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
BooleanParameter	rcRollApp (description="RC roll correction applied", quantity="ms/min")
DoubleParameter	subkTempDrift (description="Drift measured by the SubK temperature probe", quantity="K")
LongParameter	maskGlitchL1Detected (description="Mask value for first level glitch detected", quantity="K")
LongParameter	maskGlitchL1NotRemoved (description="Mask value for first level glitch detected and not removed", quantity="K")
LongParameter	maskNotChoppedToSky (description="Mask value for channel not chopped to sky", quantity="K")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="K")
DoubleParameter	plwBiasAmpl (description="PLW bias amplitude", quantity="V")
DoubleParameter	pmwBiasAmpl (description="PMW bias amplitude", quantity="V")
DoubleParameter	pswBiasAmpl (description="PSW bias amplitude", quantity="V")
DoubleParameter	ptcBiasAmpl (description="PTC bias amplitude", quantity="V")

DoubleParameter	plwBiasPhase (description="PLW bias phase", quantity="rad")
DoubleParameter	pmwBiasPhase (description="PMW bias phase", quantity="rad")
DoubleParameter	pswBiasPhase (description="PSW bias phase", quantity="rad")
DoubleParameter	ptcBiasPhase (description="PTC bias phase", quantity="rad")
StringParameter	scanSpeed (description="Speed of scan", quantity="rad")
LongParameter	scanLineNum (description="Scan line number", quantity="rad")
LongParameter	numberBadVoltageOffsetPLW (description="Number of PLW bolometers with bad voltage offset resets", quantity="rad")
LongParameter	numberBadVoltageOffsetPMW (description="Number of PMW bolometers with bad voltage offset resets", quantity="rad")
LongParameter	numberBadVoltageOffsetPSW (description="Number of PSW bolometers with bad voltage offset resets", quantity="rad")
DoubleParameter	ratioPhotFirstLevelGlitchesPSW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the PSW array", quantity="rad")
DoubleParameter	ratioPhotFirstLevelGlitchesPMW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the PMW array", quantity="rad")
DoubleParameter	ratioPhotFirstLevelGlitchesPLW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the PLW array", quantity="rad")
<i>Columns</i>	
<i>table dataset</i>	(name="voltage", description="Voltages table")
<i>Metadata</i>	
<i>Columns</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>FloatId</i>	PSWR1 (description="PHOTFARRAY001", quantity="V")
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<i>FloatId</i>	PSWD15 (description="PHOTFARRAY007", quantity="V")
<i>FloatId</i>	PSWB15 (description="PHOTFARRAY008", quantity="V")
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<i>FloatId</i>	PSWB12 (description="PHOTFARRAY020", quantity="V")
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<i>FloatId</i>	PSWJ1 (description="PHOTFARRAY030", quantity="V")
<i>FloatId</i>	PSWH2 (description="PHOTFARRAY031", quantity="V")
<i>FloatId</i>	PSWF2 (description="PHOTFARRAY032", quantity="V")
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<i>FloatId</i>	PSWG2 (description="PHOTFARRAY034", quantity="V")
<i>FloatId</i>	PSWH3 (description="PHOTFARRAY035", quantity="V")
<i>FloatId</i>	PSWJ3 (description="PHOTFARRAY036", quantity="V")
<i>FloatId</i>	PSWE2 (description="PHOTFARRAY037", quantity="V")
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<i>FloatId</i>	PSWJ4 (description="PHOTFARRAY041", quantity="V")
<i>FloatId</i>	PSWE3 (description="PHOTFARRAY042", quantity="V")
<i>FloatId</i>	PSWF4 (description="PHOTFARRAY043", quantity="V")
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<i>FloatId</i>	PSWB3 (description="PHOTFARRAY061", quantity="V")
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<i>Float1d</i>	PMWA9 (description="PHOTFARRAY211", quantity="V")
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<i>Float1d</i>	PMWA8 (description="PHOTFARRAY213", quantity="V")
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<i>Float1d</i>	PMWC8 (description="PHOTFARRAY215", quantity="V")
<i>Float1d</i>	PMWB7 (description="PHOTFARRAY216", quantity="V")
<i>Float1d</i>	PMWR1 (description="PHOTFARRAY217", quantity="V")
<i>Float1d</i>	PMWG1 (description="PHOTFARRAY218", quantity="V")
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<i>Float1d</i>	PMWF2 (description="PHOTFARRAY225", quantity="V")
<i>Float1d</i>	PMWG3 (description="PHOTFARRAY226", quantity="V")
<i>Float1d</i>	PMWE3 (description="PHOTFARRAY227", quantity="V")
<i>Float1d</i>	PMWD3 (description="PHOTFARRAY228", quantity="V")
<i>Float1d</i>	PMWF3 (description="PHOTFARRAY229", quantity="V")
<i>Float1d</i>	PMWG4 (description="PHOTFARRAY230", quantity="V")
<i>Float1d</i>	PMWE4 (description="PHOTFARRAY231", quantity="V")
<i>Float1d</i>	PMWF4 (description="PHOTFARRAY232", quantity="V")
<i>Float1d</i>	PMWE5 (description="PHOTFARRAY233", quantity="V")
<i>Float1d</i>	PMWD5 (description="PHOTFARRAY234", quantity="V")
<i>Float1d</i>	PMWF5 (description="PHOTFARRAY235", quantity="V")
<i>Float1d</i>	PMWG5 (description="PHOTFARRAY236", quantity="V")
<i>Float1d</i>	PMWE6 (description="PHOTFARRAY237", quantity="V")
<i>Float1d</i>	PMWG6 (description="PHOTFARRAY238", quantity="V")
<i>Float1d</i>	PMWF6 (description="PHOTFARRAY239", quantity="V")
<i>Float1d</i>	PMWG7 (description="PHOTFARRAY240", quantity="V")
<i>Float1d</i>	PMWF10 (description="PHOTFARRAY241", quantity="V")
<i>Float1d</i>	PMWE11 (description="PHOTFARRAY242", quantity="V")
<i>Float1d</i>	PMWG11 (description="PHOTFARRAY243", quantity="V")
<i>Float1d</i>	PMWF11 (description="PHOTFARRAY244", quantity="V")
<i>Float1d</i>	PMWE12 (description="PHOTFARRAY245", quantity="V")
<i>Float1d</i>	PMWG12 (description="PHOTFARRAY246", quantity="V")
<i>Float1d</i>	PMWF12 (description="PHOTFARRAY247", quantity="V")
<i>Float1d</i>	PMWG13 (description="PHOTFARRAY248", quantity="V")
<i>Float1d</i>	PMWDP2 (description="PHOTFARRAY249", quantity="V")
<i>Float1d</i>	PMWE7 (description="PHOTFARRAY250", quantity="V")
<i>Float1d</i>	PMWD7 (description="PHOTFARRAY251", quantity="V")
<i>Float1d</i>	PMWF7 (description="PHOTFARRAY252", quantity="V")
<i>Float1d</i>	PMWE8 (description="PHOTFARRAY253", quantity="V")
<i>Float1d</i>	PMWG8 (description="PHOTFARRAY254", quantity="V")
<i>Float1d</i>	PMWF8 (description="PHOTFARRAY255", quantity="V")
<i>Float1d</i>	PMWE9 (description="PHOTFARRAY256", quantity="V")
<i>Float1d</i>	PMWG9 (description="PHOTFARRAY257", quantity="V")
<i>Float1d</i>	PMWD9 (description="PHOTFARRAY258", quantity="V")
<i>Float1d</i>	PMWF9 (description="PHOTFARRAY259", quantity="V")
<i>Float1d</i>	PMWE10 (description="PHOTFARRAY260", quantity="V")
<i>Float1d</i>	PMWG10 (description="PHOTFARRAY261", quantity="V")
<i>Float1d</i>	PMWC4 (description="PHOTFARRAY262", quantity="V")
<i>Float1d</i>	PMWB3 (description="PHOTFARRAY263", quantity="V")
<i>Float1d</i>	PMWC3 (description="PHOTFARRAY264", quantity="V")
<i>Float1d</i>	PMWB2 (description="PHOTFARRAY265", quantity="V")

<i>Float1d</i>	PMWD2 (description="PHOTFARRAY266", quantity="V")
<i>Float1d</i>	PMWA3 (description="PHOTFARRAY267", quantity="V")
<i>Float1d</i>	PMWA2 (description="PHOTFARRAY268", quantity="V")
<i>Float1d</i>	PMWC2 (description="PHOTFARRAY269", quantity="V")
<i>Float1d</i>	PMWB1 (description="PHOTFARRAY270", quantity="V")
<i>Float1d</i>	PMWA1 (description="PHOTFARRAY271", quantity="V")
<i>Float1d</i>	PMWDP1 (description="PHOTFARRAY272", quantity="V")
<i>Float1d</i>	PMWC1 (description="PHOTFARRAY273", quantity="V")
<i>Float1d</i>	PMWA7 (description="PHOTFARRAY274", quantity="V")
<i>Float1d</i>	PMWA6 (description="PHOTFARRAY275", quantity="V")
<i>Float1d</i>	PMWB6 (description="PHOTFARRAY276", quantity="V")
<i>Float1d</i>	PMWC7 (description="PHOTFARRAY277", quantity="V")
<i>Float1d</i>	PMWA5 (description="PHOTFARRAY278", quantity="V")
<i>Float1d</i>	PMWB5 (description="PHOTFARRAY279", quantity="V")
<i>Float1d</i>	PMWC6 (description="PHOTFARRAY280", quantity="V")
<i>Float1d</i>	PMWD6 (description="PHOTFARRAY281", quantity="V")
<i>Float1d</i>	PMWB4 (description="PHOTFARRAY282", quantity="V")
<i>Float1d</i>	PMWC5 (description="PHOTFARRAY283", quantity="V")
<i>Float1d</i>	PMWD4 (description="PHOTFARRAY284", quantity="V")
<i>Float1d</i>	PMWA4 (description="PHOTFARRAY285", quantity="V")
<i>Float1d</i>	PTCP1 (description="PHOTFARRAY286", quantity="V")
<i>Float1d</i>	PTCP2 (description="PHOTFARRAY287", quantity="V")
<i>Float1d</i>	PTCP3 (description="PHOTFARRAY288", quantity="V")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="resistance", description="Resistances table")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="quality", description="Quality control metric quantities")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="temperature", description="Temperature")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.12. SPIRE Product Level 0.5 - Subsystem Control Unit Timeline

product (type="SCUT", description="Subsystem Control Unit Timeline")

<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
StringParameter	origin (description="Site that created the product", quantity="arcsec a-1")
StringParameter	type (description="Product Type Identification", quantity="arcsec a-1")
StringParameter	description (description="Name of this product", quantity="arcsec a-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in the engineering conversion", quantity="arcsec a-1")
StringParameter	level (description="The level of the product", quantity="arcsec a-1")

LongParameter	bbid (description="Building Block Identifier", quantity="arcsec a-1")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec a-1")
LongParameter	maskMaster (description="Mask value for master bit", quantity="arcsec a-1")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="arcsec a-1")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="arcsec a-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="ms/min")
StringParameter	scanSpeed (description="Speed of scan", quantity="ms/min")
<i>Columns</i>	
<i>table dataset</i>	(name="signal", description="Signal timelines")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double1d</i>	sampleTime (description="Sample time", quantity="TAI")
<i>Double1d</i>	pumpHTemp (description="SCUPHTEMP", quantity="K")
<i>Double1d</i>	pumpHSTemp (description="SCUPHSTEMP", quantity="K")
<i>Double1d</i>	evapHSTemp (description="SCUEVHSTEMP", quantity="K")
<i>Double1d</i>	shuntTemp (description="SCUSHUNTTEMP", quantity="K")
<i>Double1d</i>	emcFilTemp (description="SCUEMCFILTEMP", quantity="K")
<i>Double1d</i>	specL0Temp (description="SCUSL0TEMP", quantity="K")
<i>Double1d</i>	photL0Temp (description="SCUPL0TEMP", quantity="K")
<i>Double1d</i>	osbTemp (description="SCUOPTTEMP", quantity="K")
<i>Double1d</i>	fpuBaffTemp (description="SCUBAFTEMP", quantity="K")
<i>Double1d</i>	bsmIntTemp (description="SCUBSMIFTEMP", quantity="K")
<i>Double1d</i>	scal2Temp (description="SCUSCAL2TEMP", quantity="K")
<i>Double1d</i>	scal4Temp (description="SCUSCAL4TEMP", quantity="K")
<i>Double1d</i>	scalFlanTemp (description="SCUSCALTEMP", quantity="K")
<i>Double1d</i>	smecIntTemp (description="SCUSMECIFTEMP", quantity="K")
<i>Double1d</i>	smecTemp (description="SCUSMECTEMP", quantity="K")
<i>Double1d</i>	bsmTemp (description="SCUBSMTEMP", quantity="K")
<i>Double1d</i>	ceSubKTemp (description="SCUSUBKTEMP", quantity="K")
<i>Double1d</i>	tchVolt (description="SCUTCHTRV", quantity="V")
<i>Double1d</i>	pcalCurr (description="SCUPCALCURR", quantity="A")
<i>Double1d</i>	pcalVolt (description="SCUPCALV", quantity="V")
<i>Double1d</i>	scal2Curr (description="SCUSCAL2CURR", quantity="A")
<i>Double1d</i>	scal2Volt (description="SCUSCAL2V", quantity="V")
<i>Double1d</i>	scal4Curr (description="SCUSCAL4CURR", quantity="A")

<i>DoubleId</i>	scal4Volt (description="SCUSCAL4V", quantity="V")
<i>IntId</i>	adcFlags (description="SCUADC_FLAGS", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.13. SPIRE Product Level 0.5 - Critical House Keeping Timeline

<i>product (type="CHKT", description="Critical House Keeping Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")

DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	type (description="Product Type Identification", quantity="arcsec/year")
StringParameter	description (description="Name of this product", quantity="arcsec/year")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec/year")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec/year")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="s")
StringParameter	scanSpeed (description="Speed of scan", quantity="s")
BooleanParameter	coolerBurpDetected (description="Indicates a cooler burp", quantity="s")
<i>Columns</i>	
<i>table dataset</i>	(name="signal", description="Signal timelines")
<i>Metadata</i>	
<i>Columns</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>IntId</i>	SID_C (description="SID_C", quantity="1")
<i>LongId</i>	OBSID_C (description="OBSID_C", quantity="1")
<i>LongId</i>	BBID_C (description="BBID_C", quantity="1")
<i>StringId</i>	MODE_C (description="MODE_C", quantity="1")
<i>IntId</i>	STEP_C (description="STEP_C", quantity="1")
<i>IntId</i>	TCRECV_C (description="TCRECV_C", quantity="1")
<i>IntId</i>	TCEXEC_C (description="TCEXEC_C", quantity="1")
<i>StringId</i>	MEMSTAT1_C (description="MEMSTAT1_C", quantity="1")
<i>StringId</i>	MEMSTAT2_C (description="MEMSTAT2_C", quantity="1")
<i>StringId</i>	MEMSTAT3_C (description="MEMSTAT3_C", quantity="1")
<i>StringId</i>	MONSTAT_C (description="MONSTAT_C", quantity="1")
<i>StringId</i>	SCUDCDCSTAT_C (description="SCUDCDCSTAT_C", quantity="1")
<i>StringId</i>	MCUIFSTAT_C (description="MCUIFSTAT_C", quantity="1")
<i>StringId</i>	SCUIFSTAT_C (description="SCUIFSTAT_C", quantity="1")
<i>StringId</i>	PSWJFETSTAT_C (description="PSWJFETSTAT_C", quantity="1")

<i>StringId</i>	PSW_VDD_JFET1_C (description="PSW_VDD_JFET1_C", quantity="1")
<i>StringId</i>	PSW_VDD_JFET2_C (description="PSW_VDD_JFET2_C", quantity="1")
<i>StringId</i>	PSW_VDD_JFET3_C (description="PSW_VDD_JFET3_C", quantity="1")
<i>StringId</i>	PSW_VDD_JFET4_C (description="PSW_VDD_JFET4_C", quantity="1")
<i>StringId</i>	PSW_VDD_JFET5_C (description="PSW_VDD_JFET5_C", quantity="1")
<i>StringId</i>	PSW_VDD_JFET6_C (description="PSW_VDD_JFET6_C", quantity="1")
<i>StringId</i>	PMLWJFETSTAT_C (description="PMLWJFETSTAT_C", quantity="1")
<i>StringId</i>	PMW_VDD_JFET1_C (description="PMW_VDD_JFET1_C", quantity="1")
<i>StringId</i>	PMW_VDD_JFET2_C (description="PMW_VDD_JFET2_C", quantity="1")
<i>StringId</i>	PMW_VDD_JFET3_C (description="PMW_VDD_JFET3_C", quantity="1")
<i>StringId</i>	PMW_VDD_JFET4_C (description="PMW_VDD_JFET4_C", quantity="1")
<i>StringId</i>	PLW_VDD_JFET1_C (description="PLW_VDD_JFET1_C", quantity="1")
<i>StringId</i>	PLW_VDD_JFET2_C (description="PLW_VDD_JFET2_C", quantity="1")
<i>StringId</i>	TC_VDD_JFET_C (description="TC_VDD_JFET_C", quantity="1")
<i>StringId</i>	SPECJFETSTAT_C (description="SPECJFETSTAT_C", quantity="1")
<i>StringId</i>	SLW_VDD_JFET1_C (description="SLW_VDD_JFET1_C", quantity="1")
<i>StringId</i>	SSW_VDD_JFET1_C (description="SSW_VDD_JFET1_C", quantity="1")
<i>StringId</i>	SSW_VDD_JFET2_C (description="SSW_VDD_JFET2_C", quantity="1")
<i>StringId</i>	LIASSTAT_C (description="LIASSTAT_C", quantity="1")
<i>StringId</i>	LIAP1STAT_C (description="LIAP1STAT_C", quantity="1")
<i>StringId</i>	LIAP2STAT_C (description="LIAP2STAT_C", quantity="1")
<i>StringId</i>	LIAP3STAT_C (description="LIAP3STAT_C", quantity="1")
<i>StringId</i>	LIAP4STAT_C (description="LIAP4STAT_C", quantity="1")
<i>StringId</i>	LIAP5STAT_C (description="LIAP5STAT_C", quantity="1")
<i>StringId</i>	LIAP6STAT_C (description="LIAP6STAT_C", quantity="1")
<i>StringId</i>	LIAP7STAT_C (description="LIAP7STAT_C", quantity="1")
<i>StringId</i>	LIAP8STAT_C (description="LIAP8STAT_C", quantity="1")
<i>StringId</i>	LIAP9STAT_C (description="LIAP9STAT_C", quantity="1")
<i>StringId</i>	LIAS1STAT_C (description="LIAS1STAT_C", quantity="1")
<i>StringId</i>	LIAS2STAT_C (description="LIAS2STAT_C", quantity="1")

<i>StringId</i>	LIAS3STAT_C (description="LIAS3STAT_C", quantity="1")
<i>StringId</i>	MCUERR_C (description="MCUERR_C", quantity="1")
<i>StringId</i>	SMECSTAT_C (description="SMECSTAT_C", quantity="1")
<i>StringId</i>	BSMSTAT_C (description="BSMSTAT_C", quantity="1")
<i>StringId</i>	SCUSTAT_C (description="SCUSTAT_C", quantity="1")
<i>DoubleId</i>	SUBKTEMP_C (description="SUBKTEMP_C", quantity="K")
<i>IntId</i>	OBSVER_C (description="OBSVER_C", quantity="1")
<i>ShortId</i>	OBSVER1_C (description="OBSVER1_C", quantity="1")
<i>ShortId</i>	OBSVER2_C (description="OBSVER2_C", quantity="1")
<i>StringId</i>	OBSVER3_C (description="OBSVER3_C", quantity="1")
<i>StringId</i>	CHK_VERS (description="CHK_VERS", quantity="1")
<i>StringId</i>	CHK_TYPE (description="CHK_TYPE", quantity="1")
<i>StringId</i>	CHK_DFHFLAG (description="CHK_DFHFLAG", quantity="1")
<i>ShortId</i>	CHK_APID (description="CHK_APID", quantity="1")
<i>StringId</i>	CHK_SEGFLAG (description="CHK_SEGFLAG", quantity="1")
<i>ShortId</i>	CHK_SSC (description="CHK_SSC", quantity="1")
<i>IntId</i>	CHK_PKTLEN (description="CHK_PKTLEN", quantity="1")
<i>StringId</i>	CHK_PUSVERS (description="CHK_PUSVERS", quantity="1")
<i>ShortId</i>	CHK_PKTTYPE (description="CHK_PKTTYPE", quantity="1")
<i>ShortId</i>	CHK_PKTSTYPE (description="CHK_PKTSTYPE", quantity="1")
<i>LongId</i>	CHK_PKTCTIME (description="CHK_PKTCTIME", quantity="1")
<i>IntId</i>	CHK_PKTFTIME (description="CHK_PKTFTIME", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.14. SPIRE Product Level 0.5 - Nominal House Keeping Timeline

<i>product (type="NHKT", description="Nominal House Keeping Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")

LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	type (description="Product Type Identification", quantity="arcsec/year")
StringParameter	description (description="Name of this product", quantity="arcsec/year")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec/year")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec/year")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="s")
StringParameter	scanSpeed (description="Speed of scan", quantity="s")
BooleanParameter	coolerBurpDetected (description="Indicates a cooler burp", quantity="s")
<i>Columns</i>	

<i>table dataset</i>	<i>(name="signal", description="Signal timelines")</i>	
<i>Metadata</i>		
<i>Columns</i>		
<i>DoubleId</i>	sampleTime	(description="Sample time", quantity="TAI")
<i>StringId</i>	NHK_VERS	(description="NHK_VERS", quantity="1")
<i>StringId</i>	NHK_TYPE	(description="NHK_TYPE", quantity="1")
<i>StringId</i>	NHK_DFHFLAG	(description="NHK_DFHFLAG", quantity="1")
<i>ShortId</i>	NHK_APID	(description="NHK_APID", quantity="1")
<i>StringId</i>	NHK_SEGFLAG	(description="NHK_SEGFLAG", quantity="1")
<i>ShortId</i>	NHK_SSC	(description="NHK_SSC", quantity="1")
<i>IntId</i>	NHK_PKTLEN	(description="NHK_PKTLEN", quantity="1")
<i>StringId</i>	NHK_PUSVERS	(description="NHK_PUSVERS", quantity="1")
<i>ShortId</i>	NHK_PKTTYPE	(description="NHK_PKTTYPE", quantity="1")
<i>ShortId</i>	NHK_PKTSTYPE	(description="NHK_PKTSTYPE", quantity="1")
<i>LongId</i>	NHK_PKTCTIME	(description="NHK_PKTCTIME", quantity="1")
<i>IntId</i>	NHK_PKTFTIME	(description="NHK_PKTFTIME", quantity="1")
<i>StringId</i>	BBFULLTYPE	(description="BBFULLTYPE", quantity="1")
<i>StringId</i>	MODE	(description="MODE", quantity="1")
<i>IntId</i>	STEP	(description="STEP", quantity="1")
<i>StringId</i>	THSK	(description="THSK", quantity="1")
<i>LongId</i>	TRESET	(description="TRESET", quantity="1")
<i>IntId</i>	TCRECV	(description="TCRECV", quantity="1")
<i>IntId</i>	TCRECN	(description="TCRECN", quantity="1")
<i>IntId</i>	TCEXEC	(description="TCEXEC", quantity="1")
<i>IntId</i>	TCEXEN	(description="TCEXEN", quantity="1")
<i>IntId</i>	TM1N	(description="TM1N", quantity="1")
<i>IntId</i>	TM2N	(description="TM2N", quantity="1")
<i>IntId</i>	TM3N	(description="TM3N", quantity="1")
<i>IntId</i>	TM4N	(description="TM4N", quantity="1")
<i>IntId</i>	TM5N	(description="TM5N", quantity="1")
<i>IntId</i>	DCUFRAMECNT	(description="DCUFRAMECNT", quantity="1")
<i>IntId</i>	MCUFRAMECNT	(description="MCUFRAMECNT", quantity="1")
<i>IntId</i>	SCUFRAMECNT	(description="SCUFRAMECNT", quantity="1")
<i>StringId</i>	TSYNC	(description="TSYNC", quantity="1")
<i>StringId</i>	TDIFF	(description="TDIFF", quantity="1")
<i>StringId</i>	MEMSTAT_1	(description="MEMSTAT_1", quantity="1")
<i>StringId</i>	MEMSTAT_2	(description="MEMSTAT_2", quantity="1")
<i>StringId</i>	MEMSTAT_3	(description="MEMSTAT_3", quantity="1")
<i>StringId</i>	MONSTAT	(description="MONSTAT", quantity="1")
<i>StringId</i>	DCULSIFSTAT	(description="DCULSIFSTAT", quantity="1")
<i>StringId</i>	DCUHSIFMODE	(description="DCUHSIFMODE", quantity="1")

<i>String1d</i>	MCULSIFSTAT (description="MCULSIFSTAT", quantity="1")
<i>String1d</i>	MCUHSIFMODE (description="MCUHSIFMODE", quantity="1")
<i>String1d</i>	SCULSIFSTAT (description="SCULSIFSTAT", quantity="1")
<i>String1d</i>	SCUHSMODE (description="SCUHSMODE", quantity="1")
<i>Int1d</i>	BBCOUNT (description="BBCOUNT", quantity="1")
<i>Int1d</i>	VMSTAT (description="VMSTAT", quantity="1")
<i>Int1d</i>	VM1STAT (description="VM1STAT", quantity="1")
<i>Int1d</i>	VM2STAT (description="VM2STAT", quantity="1")
<i>Int1d</i>	VM3STAT (description="VM3STAT", quantity="1")
<i>Int1d</i>	VMSTATAFX (description="VMSTATAFX", quantity="1")
<i>Int1d</i>	SD_VALUE0 (description="SD_VALUE0", quantity="1")
<i>Int1d</i>	SD_ADDRESS0 (description="SD_ADDRESS0", quantity="1")
<i>Int1d</i>	SD_VALUE1 (description="SD_VALUE1", quantity="1")
<i>Int1d</i>	SD_ADDRESS1 (description="SD_ADDRESS1", quantity="1")
<i>Int1d</i>	SD_VALUE2 (description="SD_VALUE2", quantity="1")
<i>Int1d</i>	SD_ADDRESS2 (description="SD_ADDRESS2", quantity="1")
<i>Int1d</i>	SD_VALUE3 (description="SD_VALUE3", quantity="1")
<i>Int1d</i>	SD_ADDRESS3 (description="SD_ADDRESS3", quantity="1")
<i>Double1d</i>	DPUP5V (description="DPUP5V", quantity="V")
<i>Double1d</i>	DPUP15V (description="DPUP15V", quantity="V")
<i>Double1d</i>	DPUM15V (description="DPUM15V", quantity="V")
<i>Double1d</i>	DPUTEMP (description="DPUTEMP", quantity="K")
<i>Int1d</i>	CPULOAD (description="CPULOAD", quantity="1")
<i>Long1d</i>	LSLOAD (description="LSLOAD", quantity="1")
<i>Double1d</i>	DPUP2_5V (description="DPUP2_5V", quantity="V")
<i>String1d</i>	DCUDATAMODE (description="DCUDATAMODE", quantity="1")
<i>String1d</i>	DCUDATAFRMS (description="DCUDATAFRMS", quantity="1")
<i>String1d</i>	DCUDATASTAT (description="DCUDATASTAT", quantity="1")
<i>Int1d</i>	PHOTBIASDIV (description="PHOTBIASDIV", quantity="1")
<i>String1d</i>	PHOTBIASMODE (description="PHOTBIASMODE", quantity="1")
<i>Int1d</i>	PHOTMCLKDIV (description="PHOTMCLKDIV", quantity="1")
<i>Double1d</i>	PSWBIAS (description="PSWBIAS", quantity="V")
<i>Double1d</i>	PMWBIAS (description="PMWBIAS", quantity="V")
<i>Double1d</i>	PLWBIAS (description="PLWBIAS", quantity="V")
<i>Double1d</i>	TCBIAS (description="TCBIAS", quantity="V")
<i>Double1d</i>	PSWPHASE (description="PSWPHASE", quantity="deg")
<i>Double1d</i>	PMWPHASE (description="PMWPHASE", quantity="deg")
<i>Double1d</i>	PLWPHASE (description="PLWPHASE", quantity="deg")
<i>Double1d</i>	TCPHASE (description="TCPHASE", quantity="deg")
<i>Int1d</i>	PSWJFETSTAT (description="PSWJFETSTAT", quantity="1")
<i>String1d</i>	PSW_VDD_JFET1 (description="PSW_VDD_JFET1", quantity="1")
<i>String1d</i>	PSW_VDD_JFET2 (description="PSW_VDD_JFET2", quantity="1")

<i>String1d</i>	PSW_VDD_JFET3 (description="PSW_VDD_JFET3", quantity="1")
<i>String1d</i>	PSW_VDD_JFET4 (description="PSW_VDD_JFET4", quantity="1")
<i>String1d</i>	PSW_VDD_JFET5 (description="PSW_VDD_JFET5", quantity="1")
<i>String1d</i>	PSW_VDD_JFET6 (description="PSW_VDD_JFET6", quantity="1")
<i>Int1d</i>	PMLWJFETSTAT (description="PMLWJFETSTAT", quantity="1")
<i>String1d</i>	PMW_VDD_JFET1 (description="PMW_VDD_JFET1", quantity="1")
<i>String1d</i>	PMW_VDD_JFET2 (description="PMW_VDD_JFET2", quantity="1")
<i>String1d</i>	PMW_VDD_JFET3 (description="PMW_VDD_JFET3", quantity="1")
<i>String1d</i>	PMW_VDD_JFET4 (description="PMW_VDD_JFET4", quantity="1")
<i>String1d</i>	PLW_VDD_JFET1 (description="PLW_VDD_JFET1", quantity="1")
<i>String1d</i>	PLW_VDD_JFET2 (description="PLW_VDD_JFET2", quantity="1")
<i>String1d</i>	TC_VDD_JFET (description="TC_VDD_JFET", quantity="1")
<i>Double1d</i>	PSWJFET1V (description="PSWJFET1V", quantity="V")
<i>Double1d</i>	PSWJFET2V (description="PSWJFET2V", quantity="V")
<i>Double1d</i>	PSWJFET3V (description="PSWJFET3V", quantity="V")
<i>Double1d</i>	PSWJFET4V (description="PSWJFET4V", quantity="V")
<i>Double1d</i>	PSWJFET5V (description="PSWJFET5V", quantity="V")
<i>Double1d</i>	PSWJFET6V (description="PSWJFET6V", quantity="V")
<i>Double1d</i>	PMWJFET1V (description="PMWJFET1V", quantity="V")
<i>Double1d</i>	PMWJFET2V (description="PMWJFET2V", quantity="V")
<i>Double1d</i>	PMWJFET3V (description="PMWJFET3V", quantity="V")
<i>Double1d</i>	PMWJFET4V (description="PMWJFET4V", quantity="V")
<i>Double1d</i>	PLWJFET1V (description="PLWJFET1V", quantity="V")
<i>Double1d</i>	PLWJFET2V (description="PLWJFET2V", quantity="V")
<i>Double1d</i>	PHOTHTRV (description="PHOTHTRV", quantity="V")
<i>Double1d</i>	TCJFETV (description="TCJFETV", quantity="V")
<i>Int1d</i>	SPECBIASDIV (description="SPECBIASDIV", quantity="1")
<i>String1d</i>	SPECBIASMODE (description="SPECBIASMODE", quantity="1")
<i>Int1d</i>	SPECMCLKDIV (description="SPECMCLKDIV", quantity="1")
<i>Double1d</i>	SSWBIAS (description="SSWBIAS", quantity="V")
<i>Double1d</i>	SLWBIAS (description="SLWBIAS", quantity="V")
<i>Double1d</i>	SSWPHASE (description="SSWPHASE", quantity="deg")
<i>Double1d</i>	SLWPHASE (description="SLWPHASE", quantity="deg")
<i>Int1d</i>	SPECJFETSTAT (description="SPECJFETSTAT", quantity="1")
<i>String1d</i>	SLW_VDD_JFET1 (description="SLW_VDD_JFET1", quantity="1")
<i>String1d</i>	SSW_VDD_JFET1 (description="SSW_VDD_JFET1", quantity="1")
<i>String1d</i>	SSW_VDD_JFET2 (description="SSW_VDD_JFET2", quantity="1")
<i>Double1d</i>	SSWJFET1V (description="SSWJFET1V", quantity="V")
<i>Double1d</i>	SSWJFET2V (description="SSWJFET2V", quantity="V")
<i>Double1d</i>	SLWJFET1V (description="SLWJFET1V", quantity="V")
<i>Double1d</i>	SPECHTRV (description="SPECHTRV", quantity="V")
<i>Double1d</i>	TC1TEMP (description="TC1TEMP", quantity="V")

<i>Double1d</i>	TC2TEMP (description="TC2TEMP", quantity="V")
<i>Double1d</i>	TC3TEMP (description="TC3TEMP", quantity="V")
<i>Double1d</i>	BIASP5V (description="BIASP5V", quantity="V")
<i>Double1d</i>	BIASP9V (description="BIASP9V", quantity="V")
<i>Double1d</i>	BIASM9V (description="BIASM9V", quantity="V")
<i>Int1d</i>	OBSVER (description="OBSVER", quantity="1")
<i>Short1d</i>	OBSVER1 (description="OBSVER1", quantity="1")
<i>Short1d</i>	OBSVER2 (description="OBSVER2", quantity="1")
<i>String1d</i>	OBSVER3 (description="OBSVER3", quantity="1")
<i>String1d</i>	TMMODE (description="TMMODE", quantity="1")
<i>Int1d</i>	FIFO_DF_FLAG (description="FIFO_DF_FLAG", quantity="1")
<i>Double1d</i>	PLIAP5V (description="PLIAP5V", quantity="V")
<i>Double1d</i>	PLIAP9V (description="PLIAP9V", quantity="V")
<i>Double1d</i>	PLIAM9V (description="PLIAM9V", quantity="V")
<i>Double1d</i>	SLIAP5V (description="SLIAP5V", quantity="V")
<i>Double1d</i>	SLIAP9V (description="SLIAP9V", quantity="V")
<i>Double1d</i>	SLIAM9V (description="SLIAM9V", quantity="V")
<i>Double1d</i>	LIAP9TEMP (description="LIAP9TEMP", quantity="K")
<i>Double1d</i>	LIAP8TEMP (description="LIAP8TEMP", quantity="K")
<i>Double1d</i>	LIAP7TEMP (description="LIAP7TEMP", quantity="K")
<i>Double1d</i>	LIAP6TEMP (description="LIAP6TEMP", quantity="K")
<i>Double1d</i>	LIAP5TEMP (description="LIAP5TEMP", quantity="K")
<i>Double1d</i>	LIAP4TEMP (description="LIAP4TEMP", quantity="K")
<i>Double1d</i>	LIAP3TEMP (description="LIAP3TEMP", quantity="K")
<i>Double1d</i>	LIAP2TEMP (description="LIAP2TEMP", quantity="K")
<i>Double1d</i>	LIAP1TEMP (description="LIAP1TEMP", quantity="K")
<i>Double1d</i>	LIAS1TEMP (description="LIAS1TEMP", quantity="K")
<i>Double1d</i>	LIAS2TEMP (description="LIAS2TEMP", quantity="K")
<i>Double1d</i>	LIAS3TEMP (description="LIAS3TEMP", quantity="K")
<i>Double1d</i>	BIASTEMP (description="BIASTEMP", quantity="K")
<i>Double1d</i>	DAQTEMP (description="DAQTEMP", quantity="K")
<i>Int1d</i>	LIASSTAT (description="LIASSTAT", quantity="1")
<i>String1d</i>	LIAP1STAT (description="LIAP1STAT", quantity="1")
<i>String1d</i>	LIAP2STAT (description="LIAP2STAT", quantity="1")
<i>String1d</i>	LIAP3STAT (description="LIAP3STAT", quantity="1")
<i>String1d</i>	LIAP4STAT (description="LIAP4STAT", quantity="1")
<i>String1d</i>	LIAP5STAT (description="LIAP5STAT", quantity="1")
<i>String1d</i>	LIAP6STAT (description="LIAP6STAT", quantity="1")
<i>String1d</i>	LIAP7STAT (description="LIAP7STAT", quantity="1")
<i>String1d</i>	LIAP8STAT (description="LIAP8STAT", quantity="1")
<i>String1d</i>	LIAP9STAT (description="LIAP9STAT", quantity="1")
<i>String1d</i>	LIAS1STAT (description="LIAS1STAT", quantity="1")

<i>String1d</i>	LIAS2STAT (description="LIAS2STAT", quantity="1")
<i>String1d</i>	LIAS3STAT (description="LIAS3STAT", quantity="1")
<i>Int1d</i>	MCUIFSTAT (description="MCUIFSTAT", quantity="1")
<i>Int1d</i>	MCUIFCTRL (description="MCUIFCTRL", quantity="1")
<i>Int1d</i>	MCUSSDEL (description="MCUSSDEL", quantity="1")
<i>Double1d</i>	MCUP5V (description="MCUP5V", quantity="V")
<i>Double1d</i>	MCUP14V (description="MCUP14V", quantity="V")
<i>Double1d</i>	MCUM14V (description="MCUM14V", quantity="V")
<i>Double1d</i>	MCUP15V (description="MCUP15V", quantity="V")
<i>Double1d</i>	MCUM15V (description="MCUM15V", quantity="V")
<i>Double1d</i>	MCUMACTEMP (description="MCUMACTEMP", quantity="K")
<i>Double1d</i>	MCUSMECTEMP (description="MCUSMECTEMP", quantity="K")
<i>Double1d</i>	MCUBSMTEMP (description="MCUBSMTEMP", quantity="K")
<i>String1d</i>	MCUERR (description="MCUERR", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTLSW (description="MCUSCHEDCNTLSW", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTMSW (description="MCUSCHEDCNTMSW", quantity="1")
<i>Int1d</i>	MCUTM10TSAMPLE (description="MCUTM10TSAMPLE", quantity="1")
<i>String1d</i>	MCUFRAMESTART (description="MCUFRAMESTART", quantity="1")
<i>Int1d</i>	MCUTM12TSAMPLE (description="MCUTM12TSAMPLE", quantity="1")
<i>Int1d</i>	MCUFRAMES (description="MCUFRAMES", quantity="1")
<i>Int1d</i>	MCUTM14TSAMPLE (description="MCUTM14TSAMPLE", quantity="1")
<i>Int1d</i>	MCUTM15TSAMPLE (description="MCUTM15TSAMPLE", quantity="1")
<i>String1d</i>	MCUTMSTATUS (description="MCUTMSTATUS", quantity="1")
<i>String1d</i>	MCUBOOTSTAT (description="MCUBOOTSTAT", quantity="1")
<i>Int1d</i>	MCUDLOADCONF (description="MCUDLOADCONF", quantity="1")
<i>Int1d</i>	SMECLOSTCOUNT (description="SMECLOSTCOUNT", quantity="1")
<i>Int1d</i>	SMECENCPWR (description="SMECENCPWR", quantity="1")
<i>String1d</i>	SMECLVDPWR (description="SMECLVDPWR", quantity="1")
<i>String1d</i>	SMECLATCHSTAT (description="SMECLATCHSTAT", quantity="1")
<i>String1d</i>	SMECLOOPMODE (description="SMECLOOPMODE", quantity="1")
<i>Double1d</i>	SCANSTART (description="SCANSTART", quantity="cm")
<i>Double1d</i>	SCANEND (description="SCANEND", quantity="cm")
<i>Int1d</i>	SCANFSPEED (description="SCANFSPEED", quantity="1")
<i>Int1d</i>	SCANS (description="SCANS", quantity="1")
<i>String1d</i>	SCANMODE (description="SCANMODE", quantity="1")
<i>Int1d</i>	SMECKP (description="SMECKP", quantity="1")
<i>Int1d</i>	SMECKD (description="SMECKD", quantity="1")

<i>Int1d</i>	SMECDFILT (description="SMECDFILT", quantity="1")
<i>Int1d</i>	SMECKI (description="SMECKI", quantity="1")
<i>Int1d</i>	SMECINTLIMIT (description="SMECINTLIMIT", quantity="1")
<i>Int1d</i>	SMECINTTHRESH (description="SMECINTTHRESH", quantity="1")
<i>Int1d</i>	SMECRATELIMIT (description="SMECRATELIMIT", quantity="1")
<i>Int1d</i>	SMECDFILT2 (description="SMECDFILT2", quantity="1")
<i>Int1d</i>	SMECFFGAIN (description="SMECFFGAIN", quantity="1")
<i>Int1d</i>	SMECFFOFFSET (description="SMECFFOFFSET", quantity="1")
<i>Int1d</i>	SCANRSPEED (description="SCANRSPEED", quantity="1")
<i>Int1d</i>	SMECBEMFGAIN (description="SMECBEMFGAIN", quantity="1")
<i>Int1d</i>	SMECMOTORRES (description="SMECMOTORRES", quantity="1")
<i>Int1d</i>	SMECMOTORBEMF (description="SMECMOTORBEMF", quantity="1")
<i>Int1d</i>	SMECRATESCALE (description="SMECRATESCALE", quantity="1")
<i>Double1d</i>	SMECLVDTOFFSET (description="SMECLVDTOFFSET", quantity="cm")
<i>Double1d</i>	SMECLVDTSCALE (description="SMECLVDTSCALE", quantity="cm")
<i>String1d</i>	SMECSTAT (description="SMECSTAT", quantity="1")
<i>String1d</i>	SMECFLAG (description="SMECFLAG", quantity="1")
<i>String1d</i>	SMECLVDTSIGN (description="SMECLVDTSIGN", quantity="1")
<i>String1d</i>	SMECINIT (description="SMECINIT", quantity="1")
<i>String1d</i>	SMECSCANDIR (description="SMECSCANDIR", quantity="1")
<i>Short1d</i>	SMECSCANCNT (description="SMECSCANCNT", quantity="1")
<i>Double1d</i>	SMECENCPOSN (description="SMECENCPOSN", quantity="cm")
<i>Int1d</i>	SMECENC SIG1 (description="SMECENC SIG1", quantity="1")
<i>Int1d</i>	SMECENC SIG2 (description="SMECENC SIG2", quantity="1")
<i>Int1d</i>	SMECENC SIG3 (description="SMECENC SIG3", quantity="1")
<i>Double1d</i>	SMECLVDTPOSN (description="SMECLVDTPOSN", quantity="cm")
<i>Int1d</i>	SMECLVDTACSIG (description="SMECLVDTACSIG", quantity="1")
<i>Int1d</i>	SMECLVDTDCSIG (description="SMECLVDTDCSIG", quantity="1")
<i>Double1d</i>	SMECTRAJPOSN (description="SMECTRAJPOSN", quantity="cm")
<i>Int1d</i>	SMECDACVAL (description="SMECDACVAL", quantity="1")
<i>Double1d</i>	SMECPOSNDELTA (description="SMECPOSNDELTA", quantity="cm")
<i>Double1d</i>	SMECENC FINEPOSN (description="SMECENC FINEPOSN", quantity="cm")
<i>Int1d</i>	SMECMEANSPEED (description="SMECMEANSPEED", quantity="1")
<i>Double1d</i>	SMECSCANPOSNERR (description="SMECSCANPOSNERR", quantity="cm")
<i>Double1d</i>	SMECMOTORCURR (description="SMECMOTORCURR", quantity="A")

<i>DoubleId</i>	SMECMOTORVOLT (description="SMECMOTORVOLT", quantity="V")
<i>IntId</i>	SMECENC SIG1AMP (description="SMECENC SIG1AMP", quantity="1")
<i>IntId</i>	SMECENC SIG1OFF (description="SMECENC SIG1OFF", quantity="1")
<i>IntId</i>	SMECENC SIG2AMP (description="SMECENC SIG2AMP", quantity="1")
<i>IntId</i>	SMECENC SIG2OFF (description="SMECENC SIG2OFF", quantity="1")
<i>IntId</i>	SMECENC SIG3AMP (description="SMECENC SIG3AMP", quantity="1")
<i>IntId</i>	SMECENC SIG3OFF (description="SMECENC SIG3OFF", quantity="1")
<i>StringId</i>	CHOPSENSPWR (description="CHOPSENSPWR", quantity="1")
<i>StringId</i>	CHOPLOOPMODE (description="CHOPLOOPMODE", quantity="1")
<i>IntId</i>	CHOPPOSN (description="CHOPPOSN", quantity="1")
<i>IntId</i>	CHOPPOSN2 (description="CHOPPOSN2", quantity="1")
<i>StringId</i>	BSMMODE (description="BSMMODE", quantity="1")
<i>IntId</i>	CHOPFFOFFSET (description="CHOPFFOFFSET", quantity="1")
<i>IntId</i>	CHOPKP (description="CHOPKP", quantity="1")
<i>IntId</i>	CHOPKD (description="CHOPKD", quantity="1")
<i>IntId</i>	CHOPKI (description="CHOPKI", quantity="1")
<i>IntId</i>	CHOPINTREF (description="CHOPINTREF", quantity="1")
<i>IntId</i>	CHOPINTLIMIT (description="CHOPINTLIMIT", quantity="1")
<i>IntId</i>	CHOPFFGAIN (description="CHOPFFGAIN", quantity="1")
<i>IntId</i>	CHOPFFGAINDIFF (description="CHOPFFGAINDIFF", quantity="1")
<i>IntId</i>	CHOPDIFFTC1 (description="CHOPDIFFTC1", quantity="1")
<i>IntId</i>	CHOPDIFFTC2 (description="CHOPDIFFTC2", quantity="1")
<i>IntId</i>	CHOPRATELIMIT (description="CHOPRATELIMIT", quantity="1")
<i>IntId</i>	CHOPMOTBEMFGAIN (description="CHOPMOTBEMFGAIN", quantity="1")
<i>IntId</i>	CHOPMOTRES (description="CHOPMOTRES", quantity="1")
<i>IntId</i>	CHOPMOTIND (description="CHOPMOTIND", quantity="1")
<i>IntId</i>	CHOPRATESCALE (description="CHOPRATESCALE", quantity="1")
<i>IntId</i>	CHOPPOSNSCALE (description="CHOPPOSNSCALE", quantity="1")
<i>IntId</i>	CHOPBEMFRATFIL1 (description="CHOPBEMFRATFIL1", quantity="1")
<i>IntId</i>	CHOPBEMFRATFIL2 (description="CHOPBEMFRATFIL2", quantity="1")
<i>IntId</i>	CHOPJIGGCUPLE (description="CHOPJIGGCUPLE", quantity="1")
<i>StringId</i>	BSMSTAT (description="BSMSTAT", quantity="1")
<i>IntId</i>	CHOPPOSNERR (description="CHOPPOSNERR", quantity="1")
<i>IntId</i>	CHOPSENSSIG (description="CHOPSENSSIG", quantity="1")
<i>DoubleId</i>	CHOPDACVAL (description="CHOPDACVAL", quantity="V")

<i>Double1d</i>	CHOPMOTORCURR (description="CHOPMOTORCURR", quantity="A")
<i>Double1d</i>	CHOPMOTORVOLT (description="CHOPMOTORVOLT", quantity="V")
<i>String1d</i>	JIGGSENSPWR (description="JIGGSENSPWR", quantity="1")
<i>String1d</i>	JIGGLOOPMODE (description="JIGGLOOPMODE", quantity="1")
<i>Int1d</i>	JIGGPOSN (description="JIGGPOSN", quantity="1")
<i>Int1d</i>	JIGGPOSN2 (description="JIGGPOSN2", quantity="1")
<i>Int1d</i>	JIGGFFOFFSET (description="JIGGFFOFFSET", quantity="1")
<i>Int1d</i>	JIGGKP (description="JIGGKP", quantity="1")
<i>Int1d</i>	JIGGKD (description="JIGGKD", quantity="1")
<i>Int1d</i>	JIGGKI (description="JIGGKI", quantity="1")
<i>Int1d</i>	JIGGINTREF (description="JIGGINTREF", quantity="1")
<i>Int1d</i>	JIGGINTLIMIT (description="JIGGINTLIMIT", quantity="1")
<i>Int1d</i>	JIGGFFGAIN (description="JIGGFFGAIN", quantity="1")
<i>Int1d</i>	JIGGFFGAINDIFF (description="JIGGFFGAINDIFF", quantity="1")
<i>Int1d</i>	JIGGDIFFTC1 (description="JIGGDIFFTC1", quantity="1")
<i>Int1d</i>	JIGGDIFFTC2 (description="JIGGDIFFTC2", quantity="1")
<i>Int1d</i>	JIGGRATELIMIT (description="JIGGRATELIMIT", quantity="1")
<i>Int1d</i>	JIGGMOTBEMFGAIN (description="JIGGMOTBEMFGAIN", quantity="1")
<i>Int1d</i>	JIGGMOTRES (description="JIGGMOTRES", quantity="1")
<i>Int1d</i>	JIGGMOTIND (description="JIGGMOTIND", quantity="1")
<i>Int1d</i>	JIGGRATESCALE (description="JIGGRATESCALE", quantity="1")
<i>Int1d</i>	JIGGPOSNSCALE (description="JIGGPOSNSCALE", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL1 (description="JIGGBEMFRATFIL1", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL2 (description="JIGGBEMFRATFIL2", quantity="1")
<i>Int1d</i>	JIGGCHOPCOUPLE (description="JIGGCHOPCOUPLE", quantity="1")
<i>Int1d</i>	JIGGPOSNERR (description="JIGGPOSNERR", quantity="1")
<i>Int1d</i>	JIGGSENSSIG (description="JIGGSENSSIG", quantity="1")
<i>Double1d</i>	JIGGDACVAL (description="JIGGDACVAL", quantity="V")
<i>Double1d</i>	JIGGMOTORCURR (description="JIGGMOTORCURR", quantity="A")
<i>Double1d</i>	JIGGMOTORVOLT (description="JIGGMOTORVOLT", quantity="V")
<i>Int1d</i>	MCUPCKT10PARM05 (description="MCUPCKT10PARM05", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM01 (description="MCUPCKT10PARM01", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM02 (description="MCUPCKT10PARM02", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM03 (description="MCUPCKT10PARM03", quantity="1")

<i>Int1d</i>	MCUPCKT10PARM04 (description="MCUPCKT10PARM04", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM01 (description="MCUPCKT12PARM01", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM02 (description="MCUPCKT12PARM02", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM03 (description="MCUPCKT12PARM03", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM04 (description="MCUPCKT12PARM04", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM05 (description="MCUPCKT12PARM05", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM06 (description="MCUPCKT12PARM06", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM01 (description="MCUPCKT14PARM01", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM02 (description="MCUPCKT14PARM02", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM03 (description="MCUPCKT14PARM03", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM04 (description="MCUPCKT14PARM04", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM05 (description="MCUPCKT14PARM05", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM06 (description="MCUPCKT14PARM06", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM07 (description="MCUPCKT14PARM07", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM08 (description="MCUPCKT14PARM08", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM09 (description="MCUPCKT14PARM09", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM10 (description="MCUPCKT14PARM10", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM11 (description="MCUPCKT14PARM11", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM12 (description="MCUPCKT14PARM12", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM13 (description="MCUPCKT14PARM13", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM14 (description="MCUPCKT14PARM14", quantity="1")
<i>Int1d</i>	SCUIFSTAT (description="SCUIFSTAT", quantity="1")
<i>Int1d</i>	SCUIFCTRL (description="SCUIFCTRL", quantity="1")
<i>Int1d</i>	SCUSSDEL (description="SCUSSDEL", quantity="1")
<i>Int1d</i>	SCUSTAT (description="SCUSTAT", quantity="1")
<i>Int1d</i>	SCUTEMPSTAT (description="SCUTEMPSTAT", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT (description="SCUDCDCSTAT", quantity="1")

<i>String1d</i>	PLIABITSTAT (description="PLIABITSTAT", quantity="1")
<i>String1d</i>	SLIABITSTAT (description="SLIABITSTAT", quantity="1")
<i>String1d</i>	MCUBITSTAT (description="MCUBITSTAT", quantity="1")
<i>Double1d</i>	SCUP5V (description="SCUP5V", quantity="V")
<i>Double1d</i>	SCUP9V (description="SCUP9V", quantity="V")
<i>Double1d</i>	SCUM9V (description="SCUM9V", quantity="V")
<i>Double1d</i>	EVHSV (description="EVHSV", quantity="V")
<i>Double1d</i>	SPHSV (description="SPHSV", quantity="V")
<i>Double1d</i>	TCHTRV (description="TCHTRV", quantity="V")
<i>Double1d</i>	SPHTRV (description="SPHTRV", quantity="V")
<i>Double1d</i>	CCUTEMP (description="CCUTEMP", quantity="K")
<i>Double1d</i>	TCUTEMP (description="TCUTEMP", quantity="K")
<i>Double1d</i>	PSUTEMP1 (description="PSUTEMP1", quantity="K")
<i>Int1d</i>	SCUFRAMECONF (description="SCUFRAMECONF", quantity="1")
<i>Int1d</i>	SCUFRAMES (description="SCUFRAMES", quantity="1")
<i>Int1d</i>	SCUFRAMESTAT (description="SCUFRAMESTAT", quantity="1")
<i>Int1d</i>	SCUCTRL (description="SCUCTRL", quantity="1")
<i>Double1d</i>	PCALV (description="PCALV", quantity="V")
<i>Double1d</i>	SCAL2V (description="SCAL2V", quantity="V")
<i>Double1d</i>	SCAL4V (description="SCAL4V", quantity="V")
<i>Double1d</i>	SCUCHT2_5V (description="SCUCHT2_5V", quantity="V")
<i>Double1d</i>	SCUCHTREF (description="SCUCHTREF", quantity="V")
<i>Double1d</i>	SCUCHTGND (description="SCUCHTGND", quantity="V")
<i>Double1d</i>	PCALCURR (description="PCALCURR", quantity="A")
<i>Double1d</i>	SCAL2CURR (description="SCAL2CURR", quantity="A")
<i>Double1d</i>	SCAL4CURR (description="SCAL4CURR", quantity="A")
<i>Double1d</i>	PSUTEMP2 (description="PSUTEMP2", quantity="K")
<i>String1d</i>	SUBKSTAT (description="SUBKSTAT", quantity="1")
<i>Double1d</i>	PUMPHTRTEMP (description="PUMPHTRTEMP", quantity="K")
<i>Double1d</i>	PUMPHSTEMP (description="PUMPHSTEMP", quantity="K")
<i>Double1d</i>	EVAPHSTEMP (description="EVAPHSTEMP", quantity="K")
<i>Double1d</i>	SHUNTTEMP (description="SHUNTTEMP", quantity="K")
<i>Double1d</i>	EMCFILTEMP (description="EMCFILTEMP", quantity="K")
<i>Double1d</i>	SL0TEMP (description="SL0TEMP", quantity="K")
<i>Double1d</i>	PL0TEMP (description="PL0TEMP", quantity="K")
<i>Double1d</i>	OPTTEMP (description="OPTTEMP", quantity="K")
<i>Double1d</i>	BAFTEMP (description="BAFTEMP", quantity="K")
<i>Double1d</i>	BSMIFTEMP (description="BSMIFTEMP", quantity="K")
<i>Double1d</i>	SCAL2TEMP (description="SCAL2TEMP", quantity="K")
<i>Double1d</i>	SCAL4TEMP (description="SCAL4TEMP", quantity="K")
<i>Double1d</i>	SCALTEMP (description="SCALTEMP", quantity="K")
<i>Double1d</i>	SMECIFTEMP (description="SMECIFTEMP", quantity="K")

<i>DoubleId</i>	SMECTEMP (description="SMECTEMP", quantity="K")
<i>DoubleId</i>	BSMTEMP (description="BSMTEMP", quantity="K")
<i>DoubleId</i>	SUBKTEMP (description="SUBKTEMP", quantity="K")
<i>DoubleId</i>	SCUTHTREF (description="SCUTHTREF", quantity="V")
<i>DoubleId</i>	SCUTHTGND (description="SCUTHTGND", quantity="V")
<i>IntId</i>	LOSTTCBLOCK (description="LOSTTCBLOCK", quantity="1")
<i>IntId</i>	LOSTEVBLOCK (description="LOSTEVBLOCK", quantity="1")
<i>IntId</i>	LOSTHKBLOCK (description="LOSTHKBLOCK", quantity="1")
<i>IntId</i>	LOSTSDBLOCK (description="LOSTSDBLOCK", quantity="1")
<i>IntId</i>	LOSTNTBLOCK (description="LOSTNTBLOCK", quantity="1")
<i>IntId</i>	LS_HP_FIFOSTAT (description="LS_HP_FIFOSTAT", quantity="1")
<i>IntId</i>	LS_LP_FIFOSTAT (description="LS_LP_FIFOSTAT", quantity="1")
<i>StringId</i>	MCUPCKT10STAT (description="MCUPCKT10STAT", quantity="1")
<i>StringId</i>	MCUPCKT12STAT (description="MCUPCKT12STAT", quantity="1")
<i>StringId</i>	MCUPCKT14STAT (description="MCUPCKT14STAT", quantity="1")
<i>StringId</i>	MCUPCKT15STAT (description="MCUPCKT15STAT", quantity="1")
<i>StringId</i>	MCURAMINTEGRITY (description="MCURAMINTEGRITY", quantity="1")
<i>StringId</i>	MCURAMTSTPROG (description="MCURAMTSTPROG", quantity="1")
<i>StringId</i>	MCURAMTSTDATA (description="MCURAMTSTDATA", quantity="1")
<i>StringId</i>	MCUPROM2RAMCOPY (description="MCUPROM2RAMCOPY", quantity="1")
<i>StringId</i>	MCUBOOTMODE (description="MCUBOOTMODE", quantity="1")
<i>IntId</i>	SMECSELECTTAB (description="SMECSELECTTAB", quantity="1")
<i>IntId</i>	CREC_STEP (description="CREC_STEP", quantity="1")
<i>IntId</i>	PTC_STAGE (description="PTC_STAGE", quantity="1")
<i>IntId</i>	SCAL_STAGE (description="SCAL_STAGE", quantity="1")
<i>IntId</i>	JIGGLE_STEP (description="JIGGLE_STEP", quantity="1")
<i>IntId</i>	LOSTRPBLOCK (description="LOSTRPBLOCK", quantity="1")
<i>IntId</i>	LIAFAILCOUNT (description="LIAFAILCOUNT", quantity="1")
<i>IntId</i>	SCANRES (description="SCANRES", quantity="1")
<i>IntId</i>	VM_SMECSIG1OFF (description="VM_SMECSIG1OFF", quantity="1")
<i>IntId</i>	VM_SMECSIG2OFF (description="VM_SMECSIG2OFF", quantity="1")
<i>IntId</i>	TABLE7_09_LWORD (description="TABLE7_09_LWORD", quantity="1")
<i>StringId</i>	PTC_GET_COMMAND (description="PTC_GET_COMMAND", quantity="1")
<i>StringId</i>	SCAL_GET_COMMAND (description="SCAL_GET_COMMAND", quantity="1")
<i>LongId</i>	TABLE7_12 (description="TABLE7_12", quantity="1")

<i>String1d</i>	HK_MON_STATUS (description="HK_MON_STATUS", quantity="1")
<i>Int1d</i>	CHOPJIGG_DCOUPLE (description="CHOPJIGG_DCOUPLE", quantity="1")
<i>Int1d</i>	HK_02 (description="HK_02", quantity="1")
<i>Int1d</i>	HK_03 (description="HK_03", quantity="1")
<i>Int1d</i>	HK_04 (description="HK_04", quantity="1")
<i>Int1d</i>	HK_05 (description="HK_05", quantity="1")
<i>Int1d</i>	HK_06 (description="HK_06", quantity="1")
<i>Int1d</i>	HK_07 (description="HK_07", quantity="1")
<i>Int1d</i>	HK_08 (description="HK_08", quantity="1")
<i>Int1d</i>	HK_09 (description="HK_09", quantity="1")
<i>Int1d</i>	HK_10 (description="HK_10", quantity="1")
<i>Int1d</i>	HK_11 (description="HK_11", quantity="1")
<i>Int1d</i>	HK_12 (description="HK_12", quantity="1")
<i>Int1d</i>	HK_13 (description="HK_13", quantity="1")
<i>Int1d</i>	HK_14 (description="HK_14", quantity="1")
<i>Int1d</i>	HK_15 (description="HK_15", quantity="1")
<i>Int1d</i>	HK_16 (description="HK_16", quantity="1")
<i>Int1d</i>	HK_17 (description="HK_17", quantity="1")
<i>Int1d</i>	HK_18 (description="HK_18", quantity="1")
<i>Int1d</i>	HK_19 (description="HK_19", quantity="1")
<i>Int1d</i>	HK_20 (description="HK_20", quantity="1")
<i>Int1d</i>	HK_21 (description="HK_21", quantity="1")
<i>Int1d</i>	HK_22 (description="HK_22", quantity="1")
<i>Int1d</i>	HK_23 (description="HK_23", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.15. SPIRE Product Level 0.5 - Photometer Detector Timeline

<i>product (type="PDT", description="Photometer Detector Timeline")</i>	
<i>Meta-data</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")

StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
DoubleParameter	biasFreq (description="Bias frequency", quantity="Hz")
StringParameter	elecSide (description="Electronic side", quantity="Hz")
StringParameter	modelName (description="Model name attached to this product", quantity="Hz")
StringParameter	formatVersion (description="Version of product format", quantity="Hz")
StringParameter	missionConfig (description="Mission configuration", quantity="Hz")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")

StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	type (description="Product Type Identification", quantity="arcsec/year")
StringParameter	description (description="Name of this product", quantity="arcsec/year")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec/year")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec/year")
StringParameter	signalTable (description="Name of the signal table", quantity="arcsec/year")
LongParameter	maskDead (description="Mask value for dead channel", quantity="arcsec/year")
LongParameter	maskMaster (description="Mask value for master bit", quantity="arcsec/year")
LongParameter	maskNoisy (description="Mask value for noisy channel", quantity="arcsec/year")
LongParameter	maskSlow (description="Mask value for slow channel", quantity="arcsec/year")
BooleanParameter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="arcsec/year")
DoubleParameter	ratioTruncatedPLW (description="Maximum ratio of out of range values to total number of values in PLW data.", quantity="arcsec/year")
DoubleParameter	ratioTruncatedPMW (description="Maximum ratio of out of range values to total number of values in PMW data.", quantity="arcsec/year")
DoubleParameter	ratioTruncatedPSW (description="Maximum ratio of out of range values to total number of values in PSW data.", quantity="arcsec/year")

DoubleParameter	ratioTruncatedPTC (description="Total fraction of out of range values for PTC", quantity="arcsec/year")
LongParameter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="arcsec/year")
LongParameter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="arcsec/year")
LongParameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="arcsec/year")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="arcsec/year")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="arcsec/year")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
BooleanParameter	rcRollApp (description="RC roll correction applied", quantity="ms/min")
DoubleParameter	subkTempDrift (description="Drift measured by the SubK temperature probe", quantity="K")
LongParameter	maskNotChoppedToSky (description="Mask value for channel not chopped to sky", quantity="K")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="K")
DoubleParameter	plwBiasAmpl (description="PLW bias amplitude", quantity="V")
DoubleParameter	pmwBiasAmpl (description="PMW bias amplitude", quantity="V")
DoubleParameter	pswBiasAmpl (description="PSW bias amplitude", quantity="V")
DoubleParameter	ptcBiasAmpl (description="PTC bias amplitude", quantity="V")
DoubleParameter	plwBiasPhase (description="PLW bias phase", quantity="rad")
DoubleParameter	pmwBiasPhase (description="PMW bias phase", quantity="rad")
DoubleParameter	pswBiasPhase (description="PSW bias phase", quantity="rad")
DoubleParameter	ptcBiasPhase (description="PTC bias phase", quantity="rad")
StringParameter	scanSpeed (description="Speed of scan", quantity="rad")
LongParameter	scanLineNum (description="Scan line number", quantity="rad")
LongParameter	numberBadVoltageOffsetPLW (description="Number of PLW bolometers with bad voltage offset resets", quantity="rad")

LongParameter	numberBadVoltageOffsetPMW (description="Number of PMW bolometers with bad voltage offset resets", quantity="rad")
LongParameter	numberBadVoltageOffsetPSW (description="Number of PSW bolometers with bad voltage offset resets", quantity="rad")
BooleanParameter	coolerBurpDetected (description="Indicates a cooler burp", quantity="rad")
Columns	
table dataset	(name="voltage", description="Voltages table")
Metadata	
Columns	
DoubleId	sampleTime (description="Sample time", quantity="TAI")
FloatId	PSWR1 (description="PHOTFARRAY001", quantity="V")
FloatId	PSWD16 (description="PHOTFARRAY002", quantity="V")
FloatId	PSWT1 (description="PHOTFARRAY003", quantity="V")
FloatId	PSWB16 (description="PHOTFARRAY004", quantity="V")
FloatId	PSWC15 (description="PHOTFARRAY005", quantity="V")
FloatId	PSWA15 (description="PHOTFARRAY006", quantity="V")
FloatId	PSWD15 (description="PHOTFARRAY007", quantity="V")
FloatId	PSWB15 (description="PHOTFARRAY008", quantity="V")
FloatId	PSWC14 (description="PHOTFARRAY009", quantity="V")
FloatId	PSWD14 (description="PHOTFARRAY010", quantity="V")
FloatId	PSWA14 (description="PHOTFARRAY011", quantity="V")
FloatId	PSWA13 (description="PHOTFARRAY012", quantity="V")
FloatId	PSWB14 (description="PHOTFARRAY013", quantity="V")
FloatId	PSWC13 (description="PHOTFARRAY014", quantity="V")
FloatId	PSWB13 (description="PHOTFARRAY015", quantity="V")
FloatId	PSWD13 (description="PHOTFARRAY016", quantity="V")
FloatId	PSWA12 (description="PHOTFARRAY017", quantity="V")
FloatId	PSWC12 (description="PHOTFARRAY018", quantity="V")
FloatId	PSWD12 (description="PHOTFARRAY019", quantity="V")
FloatId	PSWB12 (description="PHOTFARRAY020", quantity="V")
FloatId	PSWE11 (description="PHOTFARRAY021", quantity="V")
FloatId	PSWA11 (description="PHOTFARRAY022", quantity="V")
FloatId	PSWC11 (description="PHOTFARRAY023", quantity="V")
FloatId	PSWB11 (description="PHOTFARRAY024", quantity="V")
FloatId	PSWE1 (description="PHOTFARRAY025", quantity="V")
FloatId	PSWF1 (description="PHOTFARRAY026", quantity="V")
FloatId	PSWT2 (description="PHOTFARRAY027", quantity="V")
FloatId	PSWH1 (description="PHOTFARRAY028", quantity="V")
FloatId	PSWG1 (description="PHOTFARRAY029", quantity="V")
FloatId	PSWJ1 (description="PHOTFARRAY030", quantity="V")
FloatId	PSWH2 (description="PHOTFARRAY031", quantity="V")

<i>FloatId</i>	PSWF2 (description="PHOTFARRAY032", quantity="V")
<i>FloatId</i>	PSWJ2 (description="PHOTFARRAY033", quantity="V")
<i>FloatId</i>	PSWG2 (description="PHOTFARRAY034", quantity="V")
<i>FloatId</i>	PSWH3 (description="PHOTFARRAY035", quantity="V")
<i>FloatId</i>	PSWJ3 (description="PHOTFARRAY036", quantity="V")
<i>FloatId</i>	PSWE2 (description="PHOTFARRAY037", quantity="V")
<i>FloatId</i>	PSWF3 (description="PHOTFARRAY038", quantity="V")
<i>FloatId</i>	PSWG3 (description="PHOTFARRAY039", quantity="V")
<i>FloatId</i>	PSWH4 (description="PHOTFARRAY040", quantity="V")
<i>FloatId</i>	PSWJ4 (description="PHOTFARRAY041", quantity="V")
<i>FloatId</i>	PSWE3 (description="PHOTFARRAY042", quantity="V")
<i>FloatId</i>	PSWF4 (description="PHOTFARRAY043", quantity="V")
<i>FloatId</i>	PSWG4 (description="PHOTFARRAY044", quantity="V")
<i>FloatId</i>	PSWH5 (description="PHOTFARRAY045", quantity="V")
<i>FloatId</i>	PSWE4 (description="PHOTFARRAY046", quantity="V")
<i>FloatId</i>	PSWJ5 (description="PHOTFARRAY047", quantity="V")
<i>FloatId</i>	PSWF5 (description="PHOTFARRAY048", quantity="V")
<i>FloatId</i>	PSWD6 (description="PHOTFARRAY049", quantity="V")
<i>FloatId</i>	PSWB6 (description="PHOTFARRAY050", quantity="V")
<i>FloatId</i>	PSWC5 (description="PHOTFARRAY051", quantity="V")
<i>FloatId</i>	PSWA5 (description="PHOTFARRAY052", quantity="V")
<i>FloatId</i>	PSWE5 (description="PHOTFARRAY053", quantity="V")
<i>FloatId</i>	PSWB5 (description="PHOTFARRAY054", quantity="V")
<i>FloatId</i>	PSWD5 (description="PHOTFARRAY055", quantity="V")
<i>FloatId</i>	PSWC4 (description="PHOTFARRAY056", quantity="V")
<i>FloatId</i>	PSWA4 (description="PHOTFARRAY057", quantity="V")
<i>FloatId</i>	PSWD4 (description="PHOTFARRAY058", quantity="V")
<i>FloatId</i>	PSWB4 (description="PHOTFARRAY059", quantity="V")
<i>FloatId</i>	PSWC3 (description="PHOTFARRAY060", quantity="V")
<i>FloatId</i>	PSWB3 (description="PHOTFARRAY061", quantity="V")
<i>FloatId</i>	PSWA3 (description="PHOTFARRAY062", quantity="V")
<i>FloatId</i>	PSWA2 (description="PHOTFARRAY063", quantity="V")
<i>FloatId</i>	PSWD3 (description="PHOTFARRAY064", quantity="V")
<i>FloatId</i>	PSWC2 (description="PHOTFARRAY065", quantity="V")
<i>FloatId</i>	PSWB2 (description="PHOTFARRAY066", quantity="V")
<i>FloatId</i>	PSWD2 (description="PHOTFARRAY067", quantity="V")
<i>FloatId</i>	PSWA1 (description="PHOTFARRAY068", quantity="V")
<i>FloatId</i>	PSWC1 (description="PHOTFARRAY069", quantity="V")
<i>FloatId</i>	PSWB1 (description="PHOTFARRAY070", quantity="V")
<i>FloatId</i>	PSWDP1 (description="PHOTFARRAY071", quantity="V")
<i>FloatId</i>	PSWD1 (description="PHOTFARRAY072", quantity="V")
<i>FloatId</i>	PSWF12 (description="PHOTFARRAY073", quantity="V")

<i>FloatId</i>	PSWJ11 (description="PHOTFARRAY074", quantity="V")
<i>FloatId</i>	PSWE12 (description="PHOTFARRAY075", quantity="V")
<i>FloatId</i>	PSWH12 (description="PHOTFARRAY076", quantity="V")
<i>FloatId</i>	PSWG12 (description="PHOTFARRAY077", quantity="V")
<i>FloatId</i>	PSWF13 (description="PHOTFARRAY078", quantity="V")
<i>FloatId</i>	PSWE13 (description="PHOTFARRAY079", quantity="V")
<i>FloatId</i>	PSWJ12 (description="PHOTFARRAY080", quantity="V")
<i>FloatId</i>	PSWH13 (description="PHOTFARRAY081", quantity="V")
<i>FloatId</i>	PSWG13 (description="PHOTFARRAY082", quantity="V")
<i>FloatId</i>	PSWF14 (description="PHOTFARRAY083", quantity="V")
<i>FloatId</i>	PSWE14 (description="PHOTFARRAY084", quantity="V")
<i>FloatId</i>	PSWJ13 (description="PHOTFARRAY085", quantity="V")
<i>FloatId</i>	PSWH14 (description="PHOTFARRAY086", quantity="V")
<i>FloatId</i>	PSWG14 (description="PHOTFARRAY087", quantity="V")
<i>FloatId</i>	PSWJ14 (description="PHOTFARRAY088", quantity="V")
<i>FloatId</i>	PSWF15 (description="PHOTFARRAY089", quantity="V")
<i>FloatId</i>	PSWH15 (description="PHOTFARRAY090", quantity="V")
<i>FloatId</i>	PSWJ15 (description="PHOTFARRAY091", quantity="V")
<i>FloatId</i>	PSWG15 (description="PHOTFARRAY092", quantity="V")
<i>FloatId</i>	PSWH16 (description="PHOTFARRAY093", quantity="V")
<i>FloatId</i>	PSWDP2 (description="PHOTFARRAY094", quantity="V")
<i>FloatId</i>	PSWF16 (description="PHOTFARRAY095", quantity="V")
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<i>FloatId</i>	PSWD11 (description="PHOTFARRAY097", quantity="V")
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<i>FloatId</i>	PSWC9 (description="PHOTFARRAY105", quantity="V")
<i>FloatId</i>	PSWB9 (description="PHOTFARRAY106", quantity="V")
<i>FloatId</i>	PSWD9 (description="PHOTFARRAY107", quantity="V")
<i>FloatId</i>	PSWA8 (description="PHOTFARRAY108", quantity="V")
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<i>FloatId</i>	PSWE7 (description="PHOTFARRAY114", quantity="V")
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<i>FloatId</i>	PSWD7 (description="PHOTFARRAY116", quantity="V")
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<i>FloatId</i>	PSWC6 (description="PHOTFARRAY118", quantity="V")
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<i>FloatId</i>	PSWF8 (description="PHOTFARRAY131", quantity="V")
<i>FloatId</i>	PSWG8 (description="PHOTFARRAY132", quantity="V")
<i>FloatId</i>	PSWJ8 (description="PHOTFARRAY133", quantity="V")
<i>FloatId</i>	PSWF9 (description="PHOTFARRAY134", quantity="V")
<i>FloatId</i>	PSWH9 (description="PHOTFARRAY135", quantity="V")
<i>FloatId</i>	PSWG9 (description="PHOTFARRAY136", quantity="V")
<i>FloatId</i>	PSWJ9 (description="PHOTFARRAY137", quantity="V")
<i>FloatId</i>	PSWF10 (description="PHOTFARRAY138", quantity="V")
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<i>FloatId</i>	PSWG11 (description="PHOTFARRAY144", quantity="V")
<i>FloatId</i>	PLWR1 (description="PHOTFARRAY145", quantity="V")
<i>FloatId</i>	PLWA8 (description="PHOTFARRAY146", quantity="V")
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<i>FloatId</i>	PLWB8 (description="PHOTFARRAY151", quantity="V")
<i>FloatId</i>	PLWB7 (description="PHOTFARRAY152", quantity="V")
<i>FloatId</i>	PLWC7 (description="PHOTFARRAY153", quantity="V")
<i>FloatId</i>	PLWB5 (description="PHOTFARRAY154", quantity="V")
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<i>FloatId</i>	PLWA5 (description="PHOTFARRAY156", quantity="V")
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<i>FloatId</i>	PLWB4 (description="PHOTFARRAY158", quantity="V")
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<i>FloatId</i>	PLWB3 (description="PHOTFARRAY160", quantity="V")
<i>FloatId</i>	PLWC2 (description="PHOTFARRAY161", quantity="V")
<i>FloatId</i>	PLWB2 (description="PHOTFARRAY162", quantity="V")
<i>FloatId</i>	PLWB1 (description="PHOTFARRAY163", quantity="V")
<i>FloatId</i>	PLWA3 (description="PHOTFARRAY164", quantity="V")
<i>FloatId</i>	PLWA4 (description="PHOTFARRAY165", quantity="V")
<i>FloatId</i>	PLWA1 (description="PHOTFARRAY166", quantity="V")
<i>FloatId</i>	PLWDP1 (description="PHOTFARRAY167", quantity="V")
<i>FloatId</i>	PLWA2 (description="PHOTFARRAY168", quantity="V")
<i>FloatId</i>	PLWE1 (description="PHOTFARRAY169", quantity="V")
<i>FloatId</i>	PLWE2 (description="PHOTFARRAY170", quantity="V")
<i>FloatId</i>	PLWE3 (description="PHOTFARRAY171", quantity="V")
<i>FloatId</i>	PLWE4 (description="PHOTFARRAY172", quantity="V")
<i>FloatId</i>	PLWD1 (description="PHOTFARRAY173", quantity="V")
<i>FloatId</i>	PLWD2 (description="PHOTFARRAY174", quantity="V")
<i>FloatId</i>	PLWD3 (description="PHOTFARRAY175", quantity="V")
<i>FloatId</i>	PLWD4 (description="PHOTFARRAY176", quantity="V")
<i>FloatId</i>	PLWC1 (description="PHOTFARRAY177", quantity="V")
<i>FloatId</i>	PLWC3 (description="PHOTFARRAY178", quantity="V")
<i>FloatId</i>	PLWC5 (description="PHOTFARRAY179", quantity="V")
<i>FloatId</i>	PLWT2 (description="PHOTFARRAY180", quantity="V")
<i>FloatId</i>	PLWE5 (description="PHOTFARRAY181", quantity="V")
<i>FloatId</i>	PLWC6 (description="PHOTFARRAY182", quantity="V")
<i>FloatId</i>	PLWC8 (description="PHOTFARRAY183", quantity="V")
<i>FloatId</i>	PLWD5 (description="PHOTFARRAY184", quantity="V")
<i>FloatId</i>	PLWD6 (description="PHOTFARRAY185", quantity="V")
<i>FloatId</i>	PLWD7 (description="PHOTFARRAY186", quantity="V")
<i>FloatId</i>	PLWD8 (description="PHOTFARRAY187", quantity="V")
<i>FloatId</i>	PLWE7 (description="PHOTFARRAY188", quantity="V")
<i>FloatId</i>	PLWE6 (description="PHOTFARRAY189", quantity="V")
<i>FloatId</i>	PLWE8 (description="PHOTFARRAY190", quantity="V")
<i>FloatId</i>	PLWDP2 (description="PHOTFARRAY191", quantity="V")
<i>FloatId</i>	PLWE9 (description="PHOTFARRAY192", quantity="V")
<i>FloatId</i>	PMWA13 (description="PHOTFARRAY193", quantity="V")
<i>FloatId</i>	PMWT1 (description="PHOTFARRAY194", quantity="V")
<i>FloatId</i>	PMWB12 (description="PHOTFARRAY195", quantity="V")
<i>FloatId</i>	PMWC13 (description="PHOTFARRAY196", quantity="V")
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<i>FloatId</i>	PMWC12 (description="PHOTFARRAY199", quantity="V")

<i>FloatId</i>	PMWB11 (description="PHOTFARRAY200", quantity="V")
<i>FloatId</i>	PMWA11 (description="PHOTFARRAY201", quantity="V")
<i>FloatId</i>	PMWE13 (description="PHOTFARRAY202", quantity="V")
<i>FloatId</i>	PMWD11 (description="PHOTFARRAY203", quantity="V")
<i>FloatId</i>	PMWC11 (description="PHOTFARRAY204", quantity="V")
<i>FloatId</i>	PMWB10 (description="PHOTFARRAY205", quantity="V")
<i>FloatId</i>	PMWA10 (description="PHOTFARRAY206", quantity="V")
<i>FloatId</i>	PMWD10 (description="PHOTFARRAY207", quantity="V")
<i>FloatId</i>	PMWB9 (description="PHOTFARRAY208", quantity="V")
<i>FloatId</i>	PMWC10 (description="PHOTFARRAY209", quantity="V")
<i>FloatId</i>	PMWC9 (description="PHOTFARRAY210", quantity="V")
<i>FloatId</i>	PMWA9 (description="PHOTFARRAY211", quantity="V")
<i>FloatId</i>	PMWB8 (description="PHOTFARRAY212", quantity="V")
<i>FloatId</i>	PMWA8 (description="PHOTFARRAY213", quantity="V")
<i>FloatId</i>	PMWD8 (description="PHOTFARRAY214", quantity="V")
<i>FloatId</i>	PMWC8 (description="PHOTFARRAY215", quantity="V")
<i>FloatId</i>	PMWB7 (description="PHOTFARRAY216", quantity="V")
<i>FloatId</i>	PMWR1 (description="PHOTFARRAY217", quantity="V")
<i>FloatId</i>	PMWG1 (description="PHOTFARRAY218", quantity="V")
<i>FloatId</i>	PMWT2 (description="PHOTFARRAY219", quantity="V")
<i>FloatId</i>	PMWE1 (description="PHOTFARRAY220", quantity="V")
<i>FloatId</i>	PMWD1 (description="PHOTFARRAY221", quantity="V")
<i>FloatId</i>	PMWF1 (description="PHOTFARRAY222", quantity="V")
<i>FloatId</i>	PMWE2 (description="PHOTFARRAY223", quantity="V")
<i>FloatId</i>	PMWG2 (description="PHOTFARRAY224", quantity="V")
<i>FloatId</i>	PMWF2 (description="PHOTFARRAY225", quantity="V")
<i>FloatId</i>	PMWG3 (description="PHOTFARRAY226", quantity="V")
<i>FloatId</i>	PMWE3 (description="PHOTFARRAY227", quantity="V")
<i>FloatId</i>	PMWD3 (description="PHOTFARRAY228", quantity="V")
<i>FloatId</i>	PMWF3 (description="PHOTFARRAY229", quantity="V")
<i>FloatId</i>	PMWG4 (description="PHOTFARRAY230", quantity="V")
<i>FloatId</i>	PMWE4 (description="PHOTFARRAY231", quantity="V")
<i>FloatId</i>	PMWF4 (description="PHOTFARRAY232", quantity="V")
<i>FloatId</i>	PMWE5 (description="PHOTFARRAY233", quantity="V")
<i>FloatId</i>	PMWD5 (description="PHOTFARRAY234", quantity="V")
<i>FloatId</i>	PMWF5 (description="PHOTFARRAY235", quantity="V")
<i>FloatId</i>	PMWG5 (description="PHOTFARRAY236", quantity="V")
<i>FloatId</i>	PMWE6 (description="PHOTFARRAY237", quantity="V")
<i>FloatId</i>	PMWG6 (description="PHOTFARRAY238", quantity="V")
<i>FloatId</i>	PMWF6 (description="PHOTFARRAY239", quantity="V")
<i>FloatId</i>	PMWG7 (description="PHOTFARRAY240", quantity="V")
<i>FloatId</i>	PMWF10 (description="PHOTFARRAY241", quantity="V")

<i>FloatId</i>	PMWE11 (description="PHOTFARRAY242", quantity="V")
<i>FloatId</i>	PMWG11 (description="PHOTFARRAY243", quantity="V")
<i>FloatId</i>	PMWF11 (description="PHOTFARRAY244", quantity="V")
<i>FloatId</i>	PMWE12 (description="PHOTFARRAY245", quantity="V")
<i>FloatId</i>	PMWG12 (description="PHOTFARRAY246", quantity="V")
<i>FloatId</i>	PMWF12 (description="PHOTFARRAY247", quantity="V")
<i>FloatId</i>	PMWG13 (description="PHOTFARRAY248", quantity="V")
<i>FloatId</i>	PMWDP2 (description="PHOTFARRAY249", quantity="V")
<i>FloatId</i>	PMWE7 (description="PHOTFARRAY250", quantity="V")
<i>FloatId</i>	PMWD7 (description="PHOTFARRAY251", quantity="V")
<i>FloatId</i>	PMWF7 (description="PHOTFARRAY252", quantity="V")
<i>FloatId</i>	PMWE8 (description="PHOTFARRAY253", quantity="V")
<i>FloatId</i>	PMWG8 (description="PHOTFARRAY254", quantity="V")
<i>FloatId</i>	PMWF8 (description="PHOTFARRAY255", quantity="V")
<i>FloatId</i>	PMWE9 (description="PHOTFARRAY256", quantity="V")
<i>FloatId</i>	PMWG9 (description="PHOTFARRAY257", quantity="V")
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<i>FloatId</i>	PMWF9 (description="PHOTFARRAY259", quantity="V")
<i>FloatId</i>	PMWE10 (description="PHOTFARRAY260", quantity="V")
<i>FloatId</i>	PMWG10 (description="PHOTFARRAY261", quantity="V")
<i>FloatId</i>	PMWC4 (description="PHOTFARRAY262", quantity="V")
<i>FloatId</i>	PMWB3 (description="PHOTFARRAY263", quantity="V")
<i>FloatId</i>	PMWC3 (description="PHOTFARRAY264", quantity="V")
<i>FloatId</i>	PMWB2 (description="PHOTFARRAY265", quantity="V")
<i>FloatId</i>	PMWD2 (description="PHOTFARRAY266", quantity="V")
<i>FloatId</i>	PMWA3 (description="PHOTFARRAY267", quantity="V")
<i>FloatId</i>	PMWA2 (description="PHOTFARRAY268", quantity="V")
<i>FloatId</i>	PMWC2 (description="PHOTFARRAY269", quantity="V")
<i>FloatId</i>	PMWB1 (description="PHOTFARRAY270", quantity="V")
<i>FloatId</i>	PMWA1 (description="PHOTFARRAY271", quantity="V")
<i>FloatId</i>	PMWDP1 (description="PHOTFARRAY272", quantity="V")
<i>FloatId</i>	PMWC1 (description="PHOTFARRAY273", quantity="V")
<i>FloatId</i>	PMWA7 (description="PHOTFARRAY274", quantity="V")
<i>FloatId</i>	PMWA6 (description="PHOTFARRAY275", quantity="V")
<i>FloatId</i>	PMWB6 (description="PHOTFARRAY276", quantity="V")
<i>FloatId</i>	PMWC7 (description="PHOTFARRAY277", quantity="V")
<i>FloatId</i>	PMWA5 (description="PHOTFARRAY278", quantity="V")
<i>FloatId</i>	PMWB5 (description="PHOTFARRAY279", quantity="V")
<i>FloatId</i>	PMWC6 (description="PHOTFARRAY280", quantity="V")
<i>FloatId</i>	PMWD6 (description="PHOTFARRAY281", quantity="V")
<i>FloatId</i>	PMWB4 (description="PHOTFARRAY282", quantity="V")
<i>FloatId</i>	PMWC5 (description="PHOTFARRAY283", quantity="V")

<i>Float1d</i>	PMWD4 (description="PHOTFARRAY284", quantity="V")
<i>Float1d</i>	PMWA4 (description="PHOTFARRAY285", quantity="V")
<i>Float1d</i>	PTCP1 (description="PHOTFARRAY286", quantity="V")
<i>Float1d</i>	PTCP2 (description="PHOTFARRAY287", quantity="V")
<i>Float1d</i>	PTCP3 (description="PHOTFARRAY288", quantity="V")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="resistance", description="Resistances table")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="quality", description="Quality control metric quantities")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="temperature", description="Temperature")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.16. SPIRE Product Level 0.5 - Photometer Offset Timeline

<i>product (type="POT", description="Photometer Offset Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")

StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	type (description="Product Type Identification", quantity="arcsec/year")
StringParameter	description (description="Name of this product", quantity="arcsec/year")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec/year")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec/year")
LongParameter	maskMaster (description="Mask value for master bit", quantity="arcsec/year")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="arcsec/year")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="arcsec/year")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="ms/min")
StringParameter	scanSpeed (description="Speed of scan", quantity="ms/min")
BooleanParameter	coolerBurpDetected (description="Indicates a cooler burp", quantity="ms/min")
<i>Columns</i>	
<i>table dataset</i>	(name="signal", description="Signal timelines")
<i>Metadata</i>	

<i>Columns</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>IntId</i>	PSWR1 (description="PHOTOFF001", quantity="1")
<i>IntId</i>	PSWD16 (description="PHOTOFF002", quantity="1")
<i>IntId</i>	PSWT1 (description="PHOTOFF003", quantity="1")
<i>IntId</i>	PSWB16 (description="PHOTOFF004", quantity="1")
<i>IntId</i>	PSWC15 (description="PHOTOFF005", quantity="1")
<i>IntId</i>	PSWA15 (description="PHOTOFF006", quantity="1")
<i>IntId</i>	PSWD15 (description="PHOTOFF007", quantity="1")
<i>IntId</i>	PSWB15 (description="PHOTOFF008", quantity="1")
<i>IntId</i>	PSWC14 (description="PHOTOFF009", quantity="1")
<i>IntId</i>	PSWD14 (description="PHOTOFF010", quantity="1")
<i>IntId</i>	PSWA14 (description="PHOTOFF011", quantity="1")
<i>IntId</i>	PSWA13 (description="PHOTOFF012", quantity="1")
<i>IntId</i>	PSWB14 (description="PHOTOFF013", quantity="1")
<i>IntId</i>	PSWC13 (description="PHOTOFF014", quantity="1")
<i>IntId</i>	PSWB13 (description="PHOTOFF015", quantity="1")
<i>IntId</i>	PSWD13 (description="PHOTOFF016", quantity="1")
<i>IntId</i>	PSWA12 (description="PHOTOFF017", quantity="1")
<i>IntId</i>	PSWC12 (description="PHOTOFF018", quantity="1")
<i>IntId</i>	PSWD12 (description="PHOTOFF019", quantity="1")
<i>IntId</i>	PSWB12 (description="PHOTOFF020", quantity="1")
<i>IntId</i>	PSWE11 (description="PHOTOFF021", quantity="1")
<i>IntId</i>	PSWA11 (description="PHOTOFF022", quantity="1")
<i>IntId</i>	PSWC11 (description="PHOTOFF023", quantity="1")
<i>IntId</i>	PSWB11 (description="PHOTOFF024", quantity="1")
<i>IntId</i>	PSWE1 (description="PHOTOFF025", quantity="1")
<i>IntId</i>	PSWF1 (description="PHOTOFF026", quantity="1")
<i>IntId</i>	PSWT2 (description="PHOTOFF027", quantity="1")
<i>IntId</i>	PSWH1 (description="PHOTOFF028", quantity="1")
<i>IntId</i>	PSWG1 (description="PHOTOFF029", quantity="1")
<i>IntId</i>	PSWJ1 (description="PHOTOFF030", quantity="1")
<i>IntId</i>	PSWH2 (description="PHOTOFF031", quantity="1")
<i>IntId</i>	PSWF2 (description="PHOTOFF032", quantity="1")
<i>IntId</i>	PSWJ2 (description="PHOTOFF033", quantity="1")
<i>IntId</i>	PSWG2 (description="PHOTOFF034", quantity="1")
<i>IntId</i>	PSWH3 (description="PHOTOFF035", quantity="1")
<i>IntId</i>	PSWJ3 (description="PHOTOFF036", quantity="1")
<i>IntId</i>	PSWE2 (description="PHOTOFF037", quantity="1")
<i>IntId</i>	PSWF3 (description="PHOTOFF038", quantity="1")
<i>IntId</i>	PSWG3 (description="PHOTOFF039", quantity="1")
<i>IntId</i>	PSWH4 (description="PHOTOFF040", quantity="1")

<i>Int1d</i>	PSWJ4 (description="PHOTOFF041", quantity="1")
<i>Int1d</i>	PSWE3 (description="PHOTOFF042", quantity="1")
<i>Int1d</i>	PSWF4 (description="PHOTOFF043", quantity="1")
<i>Int1d</i>	PSWG4 (description="PHOTOFF044", quantity="1")
<i>Int1d</i>	PSWH5 (description="PHOTOFF045", quantity="1")
<i>Int1d</i>	PSWE4 (description="PHOTOFF046", quantity="1")
<i>Int1d</i>	PSWJ5 (description="PHOTOFF047", quantity="1")
<i>Int1d</i>	PSWF5 (description="PHOTOFF048", quantity="1")
<i>Int1d</i>	PSWD6 (description="PHOTOFF049", quantity="1")
<i>Int1d</i>	PSWB6 (description="PHOTOFF050", quantity="1")
<i>Int1d</i>	PSWC5 (description="PHOTOFF051", quantity="1")
<i>Int1d</i>	PSWA5 (description="PHOTOFF052", quantity="1")
<i>Int1d</i>	PSWE5 (description="PHOTOFF053", quantity="1")
<i>Int1d</i>	PSWB5 (description="PHOTOFF054", quantity="1")
<i>Int1d</i>	PSWD5 (description="PHOTOFF055", quantity="1")
<i>Int1d</i>	PSWC4 (description="PHOTOFF056", quantity="1")
<i>Int1d</i>	PSWA4 (description="PHOTOFF057", quantity="1")
<i>Int1d</i>	PSWD4 (description="PHOTOFF058", quantity="1")
<i>Int1d</i>	PSWB4 (description="PHOTOFF059", quantity="1")
<i>Int1d</i>	PSWC3 (description="PHOTOFF060", quantity="1")
<i>Int1d</i>	PSWB3 (description="PHOTOFF061", quantity="1")
<i>Int1d</i>	PSWA3 (description="PHOTOFF062", quantity="1")
<i>Int1d</i>	PSWA2 (description="PHOTOFF063", quantity="1")
<i>Int1d</i>	PSWD3 (description="PHOTOFF064", quantity="1")
<i>Int1d</i>	PSWC2 (description="PHOTOFF065", quantity="1")
<i>Int1d</i>	PSWB2 (description="PHOTOFF066", quantity="1")
<i>Int1d</i>	PSWD2 (description="PHOTOFF067", quantity="1")
<i>Int1d</i>	PSWA1 (description="PHOTOFF068", quantity="1")
<i>Int1d</i>	PSWC1 (description="PHOTOFF069", quantity="1")
<i>Int1d</i>	PSWB1 (description="PHOTOFF070", quantity="1")
<i>Int1d</i>	PSWDP1 (description="PHOTOFF071", quantity="1")
<i>Int1d</i>	PSWD1 (description="PHOTOFF072", quantity="1")
<i>Int1d</i>	PSWF12 (description="PHOTOFF073", quantity="1")
<i>Int1d</i>	PSWJ11 (description="PHOTOFF074", quantity="1")
<i>Int1d</i>	PSWE12 (description="PHOTOFF075", quantity="1")
<i>Int1d</i>	PSWH12 (description="PHOTOFF076", quantity="1")
<i>Int1d</i>	PSWG12 (description="PHOTOFF077", quantity="1")
<i>Int1d</i>	PSWF13 (description="PHOTOFF078", quantity="1")
<i>Int1d</i>	PSWE13 (description="PHOTOFF079", quantity="1")
<i>Int1d</i>	PSWJ12 (description="PHOTOFF080", quantity="1")
<i>Int1d</i>	PSWH13 (description="PHOTOFF081", quantity="1")
<i>Int1d</i>	PSWG13 (description="PHOTOFF082", quantity="1")

<i>Int1d</i>	PSWF14 (description="PHOTOFF083", quantity="1")
<i>Int1d</i>	PSWE14 (description="PHOTOFF084", quantity="1")
<i>Int1d</i>	PSWJ13 (description="PHOTOFF085", quantity="1")
<i>Int1d</i>	PSWH14 (description="PHOTOFF086", quantity="1")
<i>Int1d</i>	PSWG14 (description="PHOTOFF087", quantity="1")
<i>Int1d</i>	PSWJ14 (description="PHOTOFF088", quantity="1")
<i>Int1d</i>	PSWF15 (description="PHOTOFF089", quantity="1")
<i>Int1d</i>	PSWH15 (description="PHOTOFF090", quantity="1")
<i>Int1d</i>	PSWJ15 (description="PHOTOFF091", quantity="1")
<i>Int1d</i>	PSWG15 (description="PHOTOFF092", quantity="1")
<i>Int1d</i>	PSWH16 (description="PHOTOFF093", quantity="1")
<i>Int1d</i>	PSWDP2 (description="PHOTOFF094", quantity="1")
<i>Int1d</i>	PSWF16 (description="PHOTOFF095", quantity="1")
<i>Int1d</i>	PSWE15 (description="PHOTOFF096", quantity="1")
<i>Int1d</i>	PSWD11 (description="PHOTOFF097", quantity="1")
<i>Int1d</i>	PSWA10 (description="PHOTOFF098", quantity="1")
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<i>Int1d</i>	PSWC10 (description="PHOTOFF100", quantity="1")
<i>Int1d</i>	PSWB10 (description="PHOTOFF101", quantity="1")
<i>Int1d</i>	PSWD10 (description="PHOTOFF102", quantity="1")
<i>Int1d</i>	PSWA9 (description="PHOTOFF103", quantity="1")
<i>Int1d</i>	PSWE9 (description="PHOTOFF104", quantity="1")
<i>Int1d</i>	PSWC9 (description="PHOTOFF105", quantity="1")
<i>Int1d</i>	PSWB9 (description="PHOTOFF106", quantity="1")
<i>Int1d</i>	PSWD9 (description="PHOTOFF107", quantity="1")
<i>Int1d</i>	PSWA8 (description="PHOTOFF108", quantity="1")
<i>Int1d</i>	PSWC8 (description="PHOTOFF109", quantity="1")
<i>Int1d</i>	PSWE8 (description="PHOTOFF110", quantity="1")
<i>Int1d</i>	PSWD8 (description="PHOTOFF111", quantity="1")
<i>Int1d</i>	PSWB8 (description="PHOTOFF112", quantity="1")
<i>Int1d</i>	PSWC7 (description="PHOTOFF113", quantity="1")
<i>Int1d</i>	PSWE7 (description="PHOTOFF114", quantity="1")
<i>Int1d</i>	PSWA7 (description="PHOTOFF115", quantity="1")
<i>Int1d</i>	PSWD7 (description="PHOTOFF116", quantity="1")
<i>Int1d</i>	PSWB7 (description="PHOTOFF117", quantity="1")
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<i>Int1d</i>	PSWE6 (description="PHOTOFF119", quantity="1")
<i>Int1d</i>	PSWA6 (description="PHOTOFF120", quantity="1")
<i>Int1d</i>	PSWG5 (description="PHOTOFF121", quantity="1")
<i>Int1d</i>	PSWH6 (description="PHOTOFF122", quantity="1")
<i>Int1d</i>	PSWJ6 (description="PHOTOFF123", quantity="1")
<i>Int1d</i>	PSWF6 (description="PHOTOFF124", quantity="1")

<i>Int1d</i>	PSWG6 (description="PHOTOFF125", quantity="1")
<i>Int1d</i>	PSWH7 (description="PHOTOFF126", quantity="1")
<i>Int1d</i>	PSWF7 (description="PHOTOFF127", quantity="1")
<i>Int1d</i>	PSWJ7 (description="PHOTOFF128", quantity="1")
<i>Int1d</i>	PSWG7 (description="PHOTOFF129", quantity="1")
<i>Int1d</i>	PSWH8 (description="PHOTOFF130", quantity="1")
<i>Int1d</i>	PSWF8 (description="PHOTOFF131", quantity="1")
<i>Int1d</i>	PSWG8 (description="PHOTOFF132", quantity="1")
<i>Int1d</i>	PSWJ8 (description="PHOTOFF133", quantity="1")
<i>Int1d</i>	PSWF9 (description="PHOTOFF134", quantity="1")
<i>Int1d</i>	PSWH9 (description="PHOTOFF135", quantity="1")
<i>Int1d</i>	PSWG9 (description="PHOTOFF136", quantity="1")
<i>Int1d</i>	PSWJ9 (description="PHOTOFF137", quantity="1")
<i>Int1d</i>	PSWF10 (description="PHOTOFF138", quantity="1")
<i>Int1d</i>	PSWH10 (description="PHOTOFF139", quantity="1")
<i>Int1d</i>	PSWG10 (description="PHOTOFF140", quantity="1")
<i>Int1d</i>	PSWF11 (description="PHOTOFF141", quantity="1")
<i>Int1d</i>	PSWJ10 (description="PHOTOFF142", quantity="1")
<i>Int1d</i>	PSWH11 (description="PHOTOFF143", quantity="1")
<i>Int1d</i>	PSWG11 (description="PHOTOFF144", quantity="1")
<i>Int1d</i>	PLWR1 (description="PHOTOFF145", quantity="1")
<i>Int1d</i>	PLWA8 (description="PHOTOFF146", quantity="1")
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<i>Int1d</i>	PLWA6 (description="PHOTOFF148", quantity="1")
<i>Int1d</i>	PLWA9 (description="PHOTOFF149", quantity="1")
<i>Int1d</i>	PLWC9 (description="PHOTOFF150", quantity="1")
<i>Int1d</i>	PLWB8 (description="PHOTOFF151", quantity="1")
<i>Int1d</i>	PLWB7 (description="PHOTOFF152", quantity="1")
<i>Int1d</i>	PLWC7 (description="PHOTOFF153", quantity="1")
<i>Int1d</i>	PLWB5 (description="PHOTOFF154", quantity="1")
<i>Int1d</i>	PLWB6 (description="PHOTOFF155", quantity="1")
<i>Int1d</i>	PLWA5 (description="PHOTOFF156", quantity="1")
<i>Int1d</i>	PLWT1 (description="PHOTOFF157", quantity="1")
<i>Int1d</i>	PLWB4 (description="PHOTOFF158", quantity="1")
<i>Int1d</i>	PLWC4 (description="PHOTOFF159", quantity="1")
<i>Int1d</i>	PLWB3 (description="PHOTOFF160", quantity="1")
<i>Int1d</i>	PLWC2 (description="PHOTOFF161", quantity="1")
<i>Int1d</i>	PLWB2 (description="PHOTOFF162", quantity="1")
<i>Int1d</i>	PLWB1 (description="PHOTOFF163", quantity="1")
<i>Int1d</i>	PLWA3 (description="PHOTOFF164", quantity="1")
<i>Int1d</i>	PLWA4 (description="PHOTOFF165", quantity="1")
<i>Int1d</i>	PLWA1 (description="PHOTOFF166", quantity="1")

<i>Int1d</i>	PLWDP1 (description="PHOTOFF167", quantity="1")
<i>Int1d</i>	PLWA2 (description="PHOTOFF168", quantity="1")
<i>Int1d</i>	PLWE1 (description="PHOTOFF169", quantity="1")
<i>Int1d</i>	PLWE2 (description="PHOTOFF170", quantity="1")
<i>Int1d</i>	PLWE3 (description="PHOTOFF171", quantity="1")
<i>Int1d</i>	PLWE4 (description="PHOTOFF172", quantity="1")
<i>Int1d</i>	PLWD1 (description="PHOTOFF173", quantity="1")
<i>Int1d</i>	PLWD2 (description="PHOTOFF174", quantity="1")
<i>Int1d</i>	PLWD3 (description="PHOTOFF175", quantity="1")
<i>Int1d</i>	PLWD4 (description="PHOTOFF176", quantity="1")
<i>Int1d</i>	PLWC1 (description="PHOTOFF177", quantity="1")
<i>Int1d</i>	PLWC3 (description="PHOTOFF178", quantity="1")
<i>Int1d</i>	PLWC5 (description="PHOTOFF179", quantity="1")
<i>Int1d</i>	PLWT2 (description="PHOTOFF180", quantity="1")
<i>Int1d</i>	PLWE5 (description="PHOTOFF181", quantity="1")
<i>Int1d</i>	PLWC6 (description="PHOTOFF182", quantity="1")
<i>Int1d</i>	PLWC8 (description="PHOTOFF183", quantity="1")
<i>Int1d</i>	PLWD5 (description="PHOTOFF184", quantity="1")
<i>Int1d</i>	PLWD6 (description="PHOTOFF185", quantity="1")
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<i>Int1d</i>	PLWD8 (description="PHOTOFF187", quantity="1")
<i>Int1d</i>	PLWE7 (description="PHOTOFF188", quantity="1")
<i>Int1d</i>	PLWE6 (description="PHOTOFF189", quantity="1")
<i>Int1d</i>	PLWE8 (description="PHOTOFF190", quantity="1")
<i>Int1d</i>	PLWDP2 (description="PHOTOFF191", quantity="1")
<i>Int1d</i>	PLWE9 (description="PHOTOFF192", quantity="1")
<i>Int1d</i>	PMWA13 (description="PHOTOFF193", quantity="1")
<i>Int1d</i>	PMWT1 (description="PHOTOFF194", quantity="1")
<i>Int1d</i>	PMWB12 (description="PHOTOFF195", quantity="1")
<i>Int1d</i>	PMWC13 (description="PHOTOFF196", quantity="1")
<i>Int1d</i>	PMWA12 (description="PHOTOFF197", quantity="1")
<i>Int1d</i>	PMWD12 (description="PHOTOFF198", quantity="1")
<i>Int1d</i>	PMWC12 (description="PHOTOFF199", quantity="1")
<i>Int1d</i>	PMWB11 (description="PHOTOFF200", quantity="1")
<i>Int1d</i>	PMWA11 (description="PHOTOFF201", quantity="1")
<i>Int1d</i>	PMWE13 (description="PHOTOFF202", quantity="1")
<i>Int1d</i>	PMWD11 (description="PHOTOFF203", quantity="1")
<i>Int1d</i>	PMWC11 (description="PHOTOFF204", quantity="1")
<i>Int1d</i>	PMWB10 (description="PHOTOFF205", quantity="1")
<i>Int1d</i>	PMWA10 (description="PHOTOFF206", quantity="1")
<i>Int1d</i>	PMWD10 (description="PHOTOFF207", quantity="1")
<i>Int1d</i>	PMWB9 (description="PHOTOFF208", quantity="1")

<i>Int1d</i>	PMWC10 (description="PHOTOFF209", quantity="1")
<i>Int1d</i>	PMWC9 (description="PHOTOFF210", quantity="1")
<i>Int1d</i>	PMWA9 (description="PHOTOFF211", quantity="1")
<i>Int1d</i>	PMWB8 (description="PHOTOFF212", quantity="1")
<i>Int1d</i>	PMWA8 (description="PHOTOFF213", quantity="1")
<i>Int1d</i>	PMWD8 (description="PHOTOFF214", quantity="1")
<i>Int1d</i>	PMWC8 (description="PHOTOFF215", quantity="1")
<i>Int1d</i>	PMWB7 (description="PHOTOFF216", quantity="1")
<i>Int1d</i>	PMWR1 (description="PHOTOFF217", quantity="1")
<i>Int1d</i>	PMWG1 (description="PHOTOFF218", quantity="1")
<i>Int1d</i>	PMWT2 (description="PHOTOFF219", quantity="1")
<i>Int1d</i>	PMWE1 (description="PHOTOFF220", quantity="1")
<i>Int1d</i>	PMWD1 (description="PHOTOFF221", quantity="1")
<i>Int1d</i>	PMWF1 (description="PHOTOFF222", quantity="1")
<i>Int1d</i>	PMWE2 (description="PHOTOFF223", quantity="1")
<i>Int1d</i>	PMWG2 (description="PHOTOFF224", quantity="1")
<i>Int1d</i>	PMWF2 (description="PHOTOFF225", quantity="1")
<i>Int1d</i>	PMWG3 (description="PHOTOFF226", quantity="1")
<i>Int1d</i>	PMWE3 (description="PHOTOFF227", quantity="1")
<i>Int1d</i>	PMWD3 (description="PHOTOFF228", quantity="1")
<i>Int1d</i>	PMWF3 (description="PHOTOFF229", quantity="1")
<i>Int1d</i>	PMWG4 (description="PHOTOFF230", quantity="1")
<i>Int1d</i>	PMWE4 (description="PHOTOFF231", quantity="1")
<i>Int1d</i>	PMWF4 (description="PHOTOFF232", quantity="1")
<i>Int1d</i>	PMWE5 (description="PHOTOFF233", quantity="1")
<i>Int1d</i>	PMWD5 (description="PHOTOFF234", quantity="1")
<i>Int1d</i>	PMWF5 (description="PHOTOFF235", quantity="1")
<i>Int1d</i>	PMWG5 (description="PHOTOFF236", quantity="1")
<i>Int1d</i>	PMWE6 (description="PHOTOFF237", quantity="1")
<i>Int1d</i>	PMWG6 (description="PHOTOFF238", quantity="1")
<i>Int1d</i>	PMWF6 (description="PHOTOFF239", quantity="1")
<i>Int1d</i>	PMWG7 (description="PHOTOFF240", quantity="1")
<i>Int1d</i>	PMWF10 (description="PHOTOFF241", quantity="1")
<i>Int1d</i>	PMWE11 (description="PHOTOFF242", quantity="1")
<i>Int1d</i>	PMWG11 (description="PHOTOFF243", quantity="1")
<i>Int1d</i>	PMWF11 (description="PHOTOFF244", quantity="1")
<i>Int1d</i>	PMWE12 (description="PHOTOFF245", quantity="1")
<i>Int1d</i>	PMWG12 (description="PHOTOFF246", quantity="1")
<i>Int1d</i>	PMWF12 (description="PHOTOFF247", quantity="1")
<i>Int1d</i>	PMWG13 (description="PHOTOFF248", quantity="1")
<i>Int1d</i>	PMWDP2 (description="PHOTOFF249", quantity="1")
<i>Int1d</i>	PMWE7 (description="PHOTOFF250", quantity="1")

<i>Int1d</i>	PMWD7 (description="PHOTOFF251", quantity="1")
<i>Int1d</i>	PMWF7 (description="PHOTOFF252", quantity="1")
<i>Int1d</i>	PMWE8 (description="PHOTOFF253", quantity="1")
<i>Int1d</i>	PMWG8 (description="PHOTOFF254", quantity="1")
<i>Int1d</i>	PMWF8 (description="PHOTOFF255", quantity="1")
<i>Int1d</i>	PMWE9 (description="PHOTOFF256", quantity="1")
<i>Int1d</i>	PMWG9 (description="PHOTOFF257", quantity="1")
<i>Int1d</i>	PMWD9 (description="PHOTOFF258", quantity="1")
<i>Int1d</i>	PMWF9 (description="PHOTOFF259", quantity="1")
<i>Int1d</i>	PMWE10 (description="PHOTOFF260", quantity="1")
<i>Int1d</i>	PMWG10 (description="PHOTOFF261", quantity="1")
<i>Int1d</i>	PMWC4 (description="PHOTOFF262", quantity="1")
<i>Int1d</i>	PMWB3 (description="PHOTOFF263", quantity="1")
<i>Int1d</i>	PMWC3 (description="PHOTOFF264", quantity="1")
<i>Int1d</i>	PMWB2 (description="PHOTOFF265", quantity="1")
<i>Int1d</i>	PMWD2 (description="PHOTOFF266", quantity="1")
<i>Int1d</i>	PMWA3 (description="PHOTOFF267", quantity="1")
<i>Int1d</i>	PMWA2 (description="PHOTOFF268", quantity="1")
<i>Int1d</i>	PMWC2 (description="PHOTOFF269", quantity="1")
<i>Int1d</i>	PMWB1 (description="PHOTOFF270", quantity="1")
<i>Int1d</i>	PMWA1 (description="PHOTOFF271", quantity="1")
<i>Int1d</i>	PMWDP1 (description="PHOTOFF272", quantity="1")
<i>Int1d</i>	PMWC1 (description="PHOTOFF273", quantity="1")
<i>Int1d</i>	PMWA7 (description="PHOTOFF274", quantity="1")
<i>Int1d</i>	PMWA6 (description="PHOTOFF275", quantity="1")
<i>Int1d</i>	PMWB6 (description="PHOTOFF276", quantity="1")
<i>Int1d</i>	PMWC7 (description="PHOTOFF277", quantity="1")
<i>Int1d</i>	PMWA5 (description="PHOTOFF278", quantity="1")
<i>Int1d</i>	PMWB5 (description="PHOTOFF279", quantity="1")
<i>Int1d</i>	PMWC6 (description="PHOTOFF280", quantity="1")
<i>Int1d</i>	PMWD6 (description="PHOTOFF281", quantity="1")
<i>Int1d</i>	PMWB4 (description="PHOTOFF282", quantity="1")
<i>Int1d</i>	PMWC5 (description="PHOTOFF283", quantity="1")
<i>Int1d</i>	PMWD4 (description="PHOTOFF284", quantity="1")
<i>Int1d</i>	PMWA4 (description="PHOTOFF285", quantity="1")
<i>Int1d</i>	PTCP1 (description="PHOTOFF286", quantity="1")
<i>Int1d</i>	PTCP2 (description="PHOTOFF287", quantity="1")
<i>Int1d</i>	PTCP3 (description="PHOTOFF288", quantity="1")
<i>Int1d</i>	adcFlags (description="PHOTOFFADCFLGS", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")

	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.17. SPIRE Product Level 0.5 - Subsystem Control Unit Timeline

<i>product (type="SCUT", description="Subsystem Control Unit Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")

DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	type (description="Product Type Identification", quantity="arcsec/year")
StringParameter	description (description="Name of this product", quantity="arcsec/year")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec/year")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec/year")
LongParameter	maskMaster (description="Mask value for master bit", quantity="arcsec/year")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="arcsec/year")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="arcsec/year")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="ms/min")
StringParameter	scanSpeed (description="Speed of scan", quantity="ms/min")
BooleanParameter	coolerBurpDetected (description="Indicates a cooler burp", quantity="ms/min")
<i>Columns</i>	
<i>table dataset</i>	(name="signal", description="Signal timelines")
<i>Metadata</i>	
<i>Columns</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>DoubleId</i>	pumpHTemp (description="SCUPHTEMP", quantity="K")
<i>DoubleId</i>	pumpHSTemp (description="SCUPHSTEMP", quantity="K")
<i>DoubleId</i>	evapHSTemp (description="SCUEVHSTEMP", quantity="K")
<i>DoubleId</i>	shuntTemp (description="SCUSHUNTTEMP", quantity="K")
<i>DoubleId</i>	emcFilTemp (description="SCUEMCFILTEMP", quantity="K")
<i>DoubleId</i>	specL0Temp (description="SCUSL0TEMP", quantity="K")
<i>DoubleId</i>	photL0Temp (description="SCUPL0TEMP", quantity="K")
<i>DoubleId</i>	osbTemp (description="SCUOPTTEMP", quantity="K")
<i>DoubleId</i>	fpuBaffTemp (description="SCUBAFTEMP", quantity="K")
<i>DoubleId</i>	bsmIntTemp (description="SCUBSMIFTEMP", quantity="K")
<i>DoubleId</i>	scal2Temp (description="SCUSCAL2TEMP", quantity="K")
<i>DoubleId</i>	scal4Temp (description="SCUSCAL4TEMP", quantity="K")
<i>DoubleId</i>	scalFlanTemp (description="SCUSCALTEMP", quantity="K")

<i>Double1d</i>	smecIntTemp (description="SCUSMECIFTEMP", quantity="K")
<i>Double1d</i>	smecTemp (description="SCUSMECTEMP", quantity="K")
<i>Double1d</i>	bsmTemp (description="SCUBSMTEMP", quantity="K")
<i>Double1d</i>	ceSubKTemp (description="SCUSUBKTEMP", quantity="K")
<i>Double1d</i>	tchVolt (description="SCUTCHTRV", quantity="V")
<i>Double1d</i>	pcalCurr (description="SCUPCALCURR", quantity="A")
<i>Double1d</i>	pcalVolt (description="SCUPCALV", quantity="V")
<i>Double1d</i>	scal2Curr (description="SCUSCAL2CURR", quantity="A")
<i>Double1d</i>	scal2Volt (description="SCUSCAL2V", quantity="V")
<i>Double1d</i>	scal4Curr (description="SCUSCAL4CURR", quantity="A")
<i>Double1d</i>	scal4Volt (description="SCUSCAL4V", quantity="V")
<i>Int1d</i>	adcFlags (description="SCUADC_FLAGS", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.18. SPIRE Product Level 0.5 - Photometer Detector Timeline

<i>product (type="PDT", description="Photometer Detector Timeline")</i>	
<i>Metada- ta</i>	
<i>StringParame- ter</i>	telescope (description="Name of telescope")
<i>StringParame- ter</i>	instrument (description="Instrument attached to this product")
<i>StringParame- ter</i>	subsystem (description="Instrument Subsystem")
<i>StringParame- ter</i>	source (description="TM source packet name")
<i>StringParame- ter</i>	creator (description="Generator of this product")
<i>StringParame- ter</i>	object (description="Target name")
<i>StringParame- ter</i>	observer (description="Observer name")
<i>StringParame- ter</i>	proposal (description="Proposal name")
<i>LongParame- ter</i>	obsid (description="Observation identifier")
<i>LongParame- ter</i>	odNumber (description="Operational day number")

DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
DoubleParameter	biasFreq (description="Bias frequency", quantity="Hz")
StringParameter	elecSide (description="Electronic side", quantity="Hz")
StringParameter	modelName (description="Model name attached to this product", quantity="Hz")
StringParameter	formatVersion (description="Version of product format", quantity="Hz")
StringParameter	missionConfig (description="Mission configuration", quantity="Hz")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")

StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	type (description="Product Type Identification", quantity="arcsec/year")
StringParameter	description (description="Name of this product", quantity="arcsec/year")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec/year")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec/year")
StringParameter	signalTable (description="Name of the signal table", quantity="arcsec/year")
LongParameter	maskDead (description="Mask value for dead channel", quantity="arcsec/year")
LongParameter	maskMaster (description="Mask value for master bit", quantity="arcsec/year")
LongParameter	maskNoisy (description="Mask value for noisy channel", quantity="arcsec/year")
LongParameter	maskSlow (description="Mask value for slow channel", quantity="arcsec/year")
BooleanParameter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="arcsec/year")
DoubleParameter	ratioTruncatedPLW (description="Maximum ratio of out of range values to total number of values in PLW data.", quantity="arcsec/year")
DoubleParameter	ratioTruncatedPMW (description="Maximum ratio of out of range values to total number of values in PMW data.", quantity="arcsec/year")
DoubleParameter	ratioTruncatedPSW (description="Maximum ratio of out of range values to total number of values in PSW data.", quantity="arcsec/year")
DoubleParameter	ratioTruncatedPTC (description="Total fraction of out of range values for PTC", quantity="arcsec/year")
LongParameter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="arcsec/year")
LongParameter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="arcsec/year")
LongParameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="arcsec/year")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="arcsec/year")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="arcsec/year")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")

BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
BooleanParameter	rcRollApp (description="RC roll correction applied", quantity="ms/min")
DoubleParameter	subkTempDrift (description="Drift measured by the SubK temperature probe", quantity="K")
LongParameter	maskGlitchL1Detected (description="Mask value for first level glitch detected", quantity="K")
LongParameter	maskGlitchL1NotRemoved (description="Mask value for first level glitch detected and not removed", quantity="K")
LongParameter	maskNotChoppedToSky (description="Mask value for channel not chopped to sky", quantity="K")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="K")
DoubleParameter	plwBiasAmpl (description="PLW bias amplitude", quantity="V")
DoubleParameter	pmwBiasAmpl (description="PMW bias amplitude", quantity="V")
DoubleParameter	pswBiasAmpl (description="PSW bias amplitude", quantity="V")
DoubleParameter	ptcBiasAmpl (description="PTC bias amplitude", quantity="V")
DoubleParameter	plwBiasPhase (description="PLW bias phase", quantity="rad")
DoubleParameter	pmwBiasPhase (description="PMW bias phase", quantity="rad")
DoubleParameter	pswBiasPhase (description="PSW bias phase", quantity="rad")
DoubleParameter	ptcBiasPhase (description="PTC bias phase", quantity="rad")
StringParameter	scanSpeed (description="Speed of scan", quantity="rad")
LongParameter	scanLineNum (description="Scan line number", quantity="rad")
LongParameter	numberBadVoltageOffsetPLW (description="Number of PLW bolometers with bad voltage offset resets", quantity="rad")
LongParameter	numberBadVoltageOffsetPMW (description="Number of PMW bolometers with bad voltage offset resets", quantity="rad")
LongParameter	numberBadVoltageOffsetPSW (description="Number of PSW bolometers with bad voltage offset resets", quantity="rad")
BooleanParameter	coolerBurpDetected (description="Indicates a cooler burp", quantity="rad")
DoubleParameter	ratioPhotFirstLevelGlitchesPSW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the PSW array", quantity="rad")
DoubleParameter	ratioPhotFirstLevelGlitchesPMW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the PMW array", quantity="rad")

DoubleParameter	ratioPhotFirstLevelGlitchesPLW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the PLW array", quantity="rad")
Columns	
table dataset	(name="voltage", description="Voltages table")
Metadata	
Columns	
DoubleId	sampleTime (description="Sample time", quantity="TAI")
FloatId	PSWR1 (description="PHOTFARRAY001", quantity="V")
FloatId	PSWD16 (description="PHOTFARRAY002", quantity="V")
FloatId	PSWT1 (description="PHOTFARRAY003", quantity="V")
FloatId	PSWB16 (description="PHOTFARRAY004", quantity="V")
FloatId	PSWC15 (description="PHOTFARRAY005", quantity="V")
FloatId	PSWA15 (description="PHOTFARRAY006", quantity="V")
FloatId	PSWD15 (description="PHOTFARRAY007", quantity="V")
FloatId	PSWB15 (description="PHOTFARRAY008", quantity="V")
FloatId	PSWC14 (description="PHOTFARRAY009", quantity="V")
FloatId	PSWD14 (description="PHOTFARRAY010", quantity="V")
FloatId	PSWA14 (description="PHOTFARRAY011", quantity="V")
FloatId	PSWA13 (description="PHOTFARRAY012", quantity="V")
FloatId	PSWB14 (description="PHOTFARRAY013", quantity="V")
FloatId	PSWC13 (description="PHOTFARRAY014", quantity="V")
FloatId	PSWB13 (description="PHOTFARRAY015", quantity="V")
FloatId	PSWD13 (description="PHOTFARRAY016", quantity="V")
FloatId	PSWA12 (description="PHOTFARRAY017", quantity="V")
FloatId	PSWC12 (description="PHOTFARRAY018", quantity="V")
FloatId	PSWD12 (description="PHOTFARRAY019", quantity="V")
FloatId	PSWB12 (description="PHOTFARRAY020", quantity="V")
FloatId	PSWE11 (description="PHOTFARRAY021", quantity="V")
FloatId	PSWA11 (description="PHOTFARRAY022", quantity="V")
FloatId	PSWC11 (description="PHOTFARRAY023", quantity="V")
FloatId	PSWB11 (description="PHOTFARRAY024", quantity="V")
FloatId	PSWE1 (description="PHOTFARRAY025", quantity="V")
FloatId	PSWF1 (description="PHOTFARRAY026", quantity="V")
FloatId	PSWT2 (description="PHOTFARRAY027", quantity="V")
FloatId	PSWH1 (description="PHOTFARRAY028", quantity="V")
FloatId	PSWG1 (description="PHOTFARRAY029", quantity="V")
FloatId	PSWJ1 (description="PHOTFARRAY030", quantity="V")
FloatId	PSWH2 (description="PHOTFARRAY031", quantity="V")
FloatId	PSWF2 (description="PHOTFARRAY032", quantity="V")
FloatId	PSWJ2 (description="PHOTFARRAY033", quantity="V")
FloatId	PSWG2 (description="PHOTFARRAY034", quantity="V")

<i>FloatId</i>	PSWH3 (description="PHOTFARRAY035", quantity="V")
<i>FloatId</i>	PSWJ3 (description="PHOTFARRAY036", quantity="V")
<i>FloatId</i>	PSWE2 (description="PHOTFARRAY037", quantity="V")
<i>FloatId</i>	PSWF3 (description="PHOTFARRAY038", quantity="V")
<i>FloatId</i>	PSWG3 (description="PHOTFARRAY039", quantity="V")
<i>FloatId</i>	PSWH4 (description="PHOTFARRAY040", quantity="V")
<i>FloatId</i>	PSWJ4 (description="PHOTFARRAY041", quantity="V")
<i>FloatId</i>	PSWE3 (description="PHOTFARRAY042", quantity="V")
<i>FloatId</i>	PSWF4 (description="PHOTFARRAY043", quantity="V")
<i>FloatId</i>	PSWG4 (description="PHOTFARRAY044", quantity="V")
<i>FloatId</i>	PSWH5 (description="PHOTFARRAY045", quantity="V")
<i>FloatId</i>	PSWE4 (description="PHOTFARRAY046", quantity="V")
<i>FloatId</i>	PSWJ5 (description="PHOTFARRAY047", quantity="V")
<i>FloatId</i>	PSWF5 (description="PHOTFARRAY048", quantity="V")
<i>FloatId</i>	PSWD6 (description="PHOTFARRAY049", quantity="V")
<i>FloatId</i>	PSWB6 (description="PHOTFARRAY050", quantity="V")
<i>FloatId</i>	PSWC5 (description="PHOTFARRAY051", quantity="V")
<i>FloatId</i>	PSWA5 (description="PHOTFARRAY052", quantity="V")
<i>FloatId</i>	PSWE5 (description="PHOTFARRAY053", quantity="V")
<i>FloatId</i>	PSWB5 (description="PHOTFARRAY054", quantity="V")
<i>FloatId</i>	PSWD5 (description="PHOTFARRAY055", quantity="V")
<i>FloatId</i>	PSWC4 (description="PHOTFARRAY056", quantity="V")
<i>FloatId</i>	PSWA4 (description="PHOTFARRAY057", quantity="V")
<i>FloatId</i>	PSWD4 (description="PHOTFARRAY058", quantity="V")
<i>FloatId</i>	PSWB4 (description="PHOTFARRAY059", quantity="V")
<i>FloatId</i>	PSWC3 (description="PHOTFARRAY060", quantity="V")
<i>FloatId</i>	PSWB3 (description="PHOTFARRAY061", quantity="V")
<i>FloatId</i>	PSWA3 (description="PHOTFARRAY062", quantity="V")
<i>FloatId</i>	PSWA2 (description="PHOTFARRAY063", quantity="V")
<i>FloatId</i>	PSWD3 (description="PHOTFARRAY064", quantity="V")
<i>FloatId</i>	PSWC2 (description="PHOTFARRAY065", quantity="V")
<i>FloatId</i>	PSWB2 (description="PHOTFARRAY066", quantity="V")
<i>FloatId</i>	PSWD2 (description="PHOTFARRAY067", quantity="V")
<i>FloatId</i>	PSWA1 (description="PHOTFARRAY068", quantity="V")
<i>FloatId</i>	PSWC1 (description="PHOTFARRAY069", quantity="V")
<i>FloatId</i>	PSWB1 (description="PHOTFARRAY070", quantity="V")
<i>FloatId</i>	PSWDP1 (description="PHOTFARRAY071", quantity="V")
<i>FloatId</i>	PSWD1 (description="PHOTFARRAY072", quantity="V")
<i>FloatId</i>	PSWF12 (description="PHOTFARRAY073", quantity="V")
<i>FloatId</i>	PSWJ11 (description="PHOTFARRAY074", quantity="V")
<i>FloatId</i>	PSWE12 (description="PHOTFARRAY075", quantity="V")
<i>FloatId</i>	PSWH12 (description="PHOTFARRAY076", quantity="V")

<i>FloatId</i>	PSWG12 (description="PHOTFARRAY077", quantity="V")
<i>FloatId</i>	PSWF13 (description="PHOTFARRAY078", quantity="V")
<i>FloatId</i>	PSWE13 (description="PHOTFARRAY079", quantity="V")
<i>FloatId</i>	PSWJ12 (description="PHOTFARRAY080", quantity="V")
<i>FloatId</i>	PSWH13 (description="PHOTFARRAY081", quantity="V")
<i>FloatId</i>	PSWG13 (description="PHOTFARRAY082", quantity="V")
<i>FloatId</i>	PSWF14 (description="PHOTFARRAY083", quantity="V")
<i>FloatId</i>	PSWE14 (description="PHOTFARRAY084", quantity="V")
<i>FloatId</i>	PSWJ13 (description="PHOTFARRAY085", quantity="V")
<i>FloatId</i>	PSWH14 (description="PHOTFARRAY086", quantity="V")
<i>FloatId</i>	PSWG14 (description="PHOTFARRAY087", quantity="V")
<i>FloatId</i>	PSWJ14 (description="PHOTFARRAY088", quantity="V")
<i>FloatId</i>	PSWF15 (description="PHOTFARRAY089", quantity="V")
<i>FloatId</i>	PSWH15 (description="PHOTFARRAY090", quantity="V")
<i>FloatId</i>	PSWJ15 (description="PHOTFARRAY091", quantity="V")
<i>FloatId</i>	PSWG15 (description="PHOTFARRAY092", quantity="V")
<i>FloatId</i>	PSWH16 (description="PHOTFARRAY093", quantity="V")
<i>FloatId</i>	PSWDP2 (description="PHOTFARRAY094", quantity="V")
<i>FloatId</i>	PSWF16 (description="PHOTFARRAY095", quantity="V")
<i>FloatId</i>	PSWE15 (description="PHOTFARRAY096", quantity="V")
<i>FloatId</i>	PSWD11 (description="PHOTFARRAY097", quantity="V")
<i>FloatId</i>	PSWA10 (description="PHOTFARRAY098", quantity="V")
<i>FloatId</i>	PSWE10 (description="PHOTFARRAY099", quantity="V")
<i>FloatId</i>	PSWC10 (description="PHOTFARRAY100", quantity="V")
<i>FloatId</i>	PSWB10 (description="PHOTFARRAY101", quantity="V")
<i>FloatId</i>	PSWD10 (description="PHOTFARRAY102", quantity="V")
<i>FloatId</i>	PSWA9 (description="PHOTFARRAY103", quantity="V")
<i>FloatId</i>	PSWE9 (description="PHOTFARRAY104", quantity="V")
<i>FloatId</i>	PSWC9 (description="PHOTFARRAY105", quantity="V")
<i>FloatId</i>	PSWB9 (description="PHOTFARRAY106", quantity="V")
<i>FloatId</i>	PSWD9 (description="PHOTFARRAY107", quantity="V")
<i>FloatId</i>	PSWA8 (description="PHOTFARRAY108", quantity="V")
<i>FloatId</i>	PSWC8 (description="PHOTFARRAY109", quantity="V")
<i>FloatId</i>	PSWE8 (description="PHOTFARRAY110", quantity="V")
<i>FloatId</i>	PSWD8 (description="PHOTFARRAY111", quantity="V")
<i>FloatId</i>	PSWB8 (description="PHOTFARRAY112", quantity="V")
<i>FloatId</i>	PSWC7 (description="PHOTFARRAY113", quantity="V")
<i>FloatId</i>	PSWE7 (description="PHOTFARRAY114", quantity="V")
<i>FloatId</i>	PSWA7 (description="PHOTFARRAY115", quantity="V")
<i>FloatId</i>	PSWD7 (description="PHOTFARRAY116", quantity="V")
<i>FloatId</i>	PSWB7 (description="PHOTFARRAY117", quantity="V")
<i>FloatId</i>	PSWC6 (description="PHOTFARRAY118", quantity="V")

<i>FloatId</i>	PSWE6 (description="PHOTFARRAY119", quantity="V")
<i>FloatId</i>	PSWA6 (description="PHOTFARRAY120", quantity="V")
<i>FloatId</i>	PSWG5 (description="PHOTFARRAY121", quantity="V")
<i>FloatId</i>	PSWH6 (description="PHOTFARRAY122", quantity="V")
<i>FloatId</i>	PSWJ6 (description="PHOTFARRAY123", quantity="V")
<i>FloatId</i>	PSWF6 (description="PHOTFARRAY124", quantity="V")
<i>FloatId</i>	PSWG6 (description="PHOTFARRAY125", quantity="V")
<i>FloatId</i>	PSWH7 (description="PHOTFARRAY126", quantity="V")
<i>FloatId</i>	PSWF7 (description="PHOTFARRAY127", quantity="V")
<i>FloatId</i>	PSWJ7 (description="PHOTFARRAY128", quantity="V")
<i>FloatId</i>	PSWG7 (description="PHOTFARRAY129", quantity="V")
<i>FloatId</i>	PSWH8 (description="PHOTFARRAY130", quantity="V")
<i>FloatId</i>	PSWF8 (description="PHOTFARRAY131", quantity="V")
<i>FloatId</i>	PSWG8 (description="PHOTFARRAY132", quantity="V")
<i>FloatId</i>	PSWJ8 (description="PHOTFARRAY133", quantity="V")
<i>FloatId</i>	PSWF9 (description="PHOTFARRAY134", quantity="V")
<i>FloatId</i>	PSWH9 (description="PHOTFARRAY135", quantity="V")
<i>FloatId</i>	PSWG9 (description="PHOTFARRAY136", quantity="V")
<i>FloatId</i>	PSWJ9 (description="PHOTFARRAY137", quantity="V")
<i>FloatId</i>	PSWF10 (description="PHOTFARRAY138", quantity="V")
<i>FloatId</i>	PSWH10 (description="PHOTFARRAY139", quantity="V")
<i>FloatId</i>	PSWG10 (description="PHOTFARRAY140", quantity="V")
<i>FloatId</i>	PSWF11 (description="PHOTFARRAY141", quantity="V")
<i>FloatId</i>	PSWJ10 (description="PHOTFARRAY142", quantity="V")
<i>FloatId</i>	PSWH11 (description="PHOTFARRAY143", quantity="V")
<i>FloatId</i>	PSWG11 (description="PHOTFARRAY144", quantity="V")
<i>FloatId</i>	PLWR1 (description="PHOTFARRAY145", quantity="V")
<i>FloatId</i>	PLWA8 (description="PHOTFARRAY146", quantity="V")
<i>FloatId</i>	PLWA7 (description="PHOTFARRAY147", quantity="V")
<i>FloatId</i>	PLWA6 (description="PHOTFARRAY148", quantity="V")
<i>FloatId</i>	PLWA9 (description="PHOTFARRAY149", quantity="V")
<i>FloatId</i>	PLWC9 (description="PHOTFARRAY150", quantity="V")
<i>FloatId</i>	PLWB8 (description="PHOTFARRAY151", quantity="V")
<i>FloatId</i>	PLWB7 (description="PHOTFARRAY152", quantity="V")
<i>FloatId</i>	PLWC7 (description="PHOTFARRAY153", quantity="V")
<i>FloatId</i>	PLWB5 (description="PHOTFARRAY154", quantity="V")
<i>FloatId</i>	PLWB6 (description="PHOTFARRAY155", quantity="V")
<i>FloatId</i>	PLWA5 (description="PHOTFARRAY156", quantity="V")
<i>FloatId</i>	PLWT1 (description="PHOTFARRAY157", quantity="V")
<i>FloatId</i>	PLWB4 (description="PHOTFARRAY158", quantity="V")
<i>FloatId</i>	PLWC4 (description="PHOTFARRAY159", quantity="V")
<i>FloatId</i>	PLWB3 (description="PHOTFARRAY160", quantity="V")

<i>FloatId</i>	PLWC2 (description="PHOTFARRAY161", quantity="V")
<i>FloatId</i>	PLWB2 (description="PHOTFARRAY162", quantity="V")
<i>FloatId</i>	PLWB1 (description="PHOTFARRAY163", quantity="V")
<i>FloatId</i>	PLWA3 (description="PHOTFARRAY164", quantity="V")
<i>FloatId</i>	PLWA4 (description="PHOTFARRAY165", quantity="V")
<i>FloatId</i>	PLWA1 (description="PHOTFARRAY166", quantity="V")
<i>FloatId</i>	PLWDP1 (description="PHOTFARRAY167", quantity="V")
<i>FloatId</i>	PLWA2 (description="PHOTFARRAY168", quantity="V")
<i>FloatId</i>	PLWE1 (description="PHOTFARRAY169", quantity="V")
<i>FloatId</i>	PLWE2 (description="PHOTFARRAY170", quantity="V")
<i>FloatId</i>	PLWE3 (description="PHOTFARRAY171", quantity="V")
<i>FloatId</i>	PLWE4 (description="PHOTFARRAY172", quantity="V")
<i>FloatId</i>	PLWD1 (description="PHOTFARRAY173", quantity="V")
<i>FloatId</i>	PLWD2 (description="PHOTFARRAY174", quantity="V")
<i>FloatId</i>	PLWD3 (description="PHOTFARRAY175", quantity="V")
<i>FloatId</i>	PLWD4 (description="PHOTFARRAY176", quantity="V")
<i>FloatId</i>	PLWC1 (description="PHOTFARRAY177", quantity="V")
<i>FloatId</i>	PLWC3 (description="PHOTFARRAY178", quantity="V")
<i>FloatId</i>	PLWC5 (description="PHOTFARRAY179", quantity="V")
<i>FloatId</i>	PLWT2 (description="PHOTFARRAY180", quantity="V")
<i>FloatId</i>	PLWE5 (description="PHOTFARRAY181", quantity="V")
<i>FloatId</i>	PLWC6 (description="PHOTFARRAY182", quantity="V")
<i>FloatId</i>	PLWC8 (description="PHOTFARRAY183", quantity="V")
<i>FloatId</i>	PLWD5 (description="PHOTFARRAY184", quantity="V")
<i>FloatId</i>	PLWD6 (description="PHOTFARRAY185", quantity="V")
<i>FloatId</i>	PLWD7 (description="PHOTFARRAY186", quantity="V")
<i>FloatId</i>	PLWD8 (description="PHOTFARRAY187", quantity="V")
<i>FloatId</i>	PLWE7 (description="PHOTFARRAY188", quantity="V")
<i>FloatId</i>	PLWE6 (description="PHOTFARRAY189", quantity="V")
<i>FloatId</i>	PLWE8 (description="PHOTFARRAY190", quantity="V")
<i>FloatId</i>	PLWDP2 (description="PHOTFARRAY191", quantity="V")
<i>FloatId</i>	PLWE9 (description="PHOTFARRAY192", quantity="V")
<i>FloatId</i>	PMWA13 (description="PHOTFARRAY193", quantity="V")
<i>FloatId</i>	PMWT1 (description="PHOTFARRAY194", quantity="V")
<i>FloatId</i>	PMWB12 (description="PHOTFARRAY195", quantity="V")
<i>FloatId</i>	PMWC13 (description="PHOTFARRAY196", quantity="V")
<i>FloatId</i>	PMWA12 (description="PHOTFARRAY197", quantity="V")
<i>FloatId</i>	PMWD12 (description="PHOTFARRAY198", quantity="V")
<i>FloatId</i>	PMWC12 (description="PHOTFARRAY199", quantity="V")
<i>FloatId</i>	PMWB11 (description="PHOTFARRAY200", quantity="V")
<i>FloatId</i>	PMWA11 (description="PHOTFARRAY201", quantity="V")
<i>FloatId</i>	PMWE13 (description="PHOTFARRAY202", quantity="V")

<i>Float1d</i>	PMWD11 (description="PHOTFARRAY203", quantity="V")
<i>Float1d</i>	PMWC11 (description="PHOTFARRAY204", quantity="V")
<i>Float1d</i>	PMWB10 (description="PHOTFARRAY205", quantity="V")
<i>Float1d</i>	PMWA10 (description="PHOTFARRAY206", quantity="V")
<i>Float1d</i>	PMWD10 (description="PHOTFARRAY207", quantity="V")
<i>Float1d</i>	PMWB9 (description="PHOTFARRAY208", quantity="V")
<i>Float1d</i>	PMWC10 (description="PHOTFARRAY209", quantity="V")
<i>Float1d</i>	PMWC9 (description="PHOTFARRAY210", quantity="V")
<i>Float1d</i>	PMWA9 (description="PHOTFARRAY211", quantity="V")
<i>Float1d</i>	PMWB8 (description="PHOTFARRAY212", quantity="V")
<i>Float1d</i>	PMWA8 (description="PHOTFARRAY213", quantity="V")
<i>Float1d</i>	PMWD8 (description="PHOTFARRAY214", quantity="V")
<i>Float1d</i>	PMWC8 (description="PHOTFARRAY215", quantity="V")
<i>Float1d</i>	PMWB7 (description="PHOTFARRAY216", quantity="V")
<i>Float1d</i>	PMWR1 (description="PHOTFARRAY217", quantity="V")
<i>Float1d</i>	PMWG1 (description="PHOTFARRAY218", quantity="V")
<i>Float1d</i>	PMWT2 (description="PHOTFARRAY219", quantity="V")
<i>Float1d</i>	PMWE1 (description="PHOTFARRAY220", quantity="V")
<i>Float1d</i>	PMWD1 (description="PHOTFARRAY221", quantity="V")
<i>Float1d</i>	PMWF1 (description="PHOTFARRAY222", quantity="V")
<i>Float1d</i>	PMWE2 (description="PHOTFARRAY223", quantity="V")
<i>Float1d</i>	PMWG2 (description="PHOTFARRAY224", quantity="V")
<i>Float1d</i>	PMWF2 (description="PHOTFARRAY225", quantity="V")
<i>Float1d</i>	PMWG3 (description="PHOTFARRAY226", quantity="V")
<i>Float1d</i>	PMWE3 (description="PHOTFARRAY227", quantity="V")
<i>Float1d</i>	PMWD3 (description="PHOTFARRAY228", quantity="V")
<i>Float1d</i>	PMWF3 (description="PHOTFARRAY229", quantity="V")
<i>Float1d</i>	PMWG4 (description="PHOTFARRAY230", quantity="V")
<i>Float1d</i>	PMWE4 (description="PHOTFARRAY231", quantity="V")
<i>Float1d</i>	PMWF4 (description="PHOTFARRAY232", quantity="V")
<i>Float1d</i>	PMWE5 (description="PHOTFARRAY233", quantity="V")
<i>Float1d</i>	PMWD5 (description="PHOTFARRAY234", quantity="V")
<i>Float1d</i>	PMWF5 (description="PHOTFARRAY235", quantity="V")
<i>Float1d</i>	PMWG5 (description="PHOTFARRAY236", quantity="V")
<i>Float1d</i>	PMWE6 (description="PHOTFARRAY237", quantity="V")
<i>Float1d</i>	PMWG6 (description="PHOTFARRAY238", quantity="V")
<i>Float1d</i>	PMWF6 (description="PHOTFARRAY239", quantity="V")
<i>Float1d</i>	PMWG7 (description="PHOTFARRAY240", quantity="V")
<i>Float1d</i>	PMWF10 (description="PHOTFARRAY241", quantity="V")
<i>Float1d</i>	PMWE11 (description="PHOTFARRAY242", quantity="V")
<i>Float1d</i>	PMWG11 (description="PHOTFARRAY243", quantity="V")
<i>Float1d</i>	PMWF11 (description="PHOTFARRAY244", quantity="V")

<i>FloatId</i>	PMWE12 (description="PHOTFARRAY245", quantity="V")
<i>FloatId</i>	PMWG12 (description="PHOTFARRAY246", quantity="V")
<i>FloatId</i>	PMWF12 (description="PHOTFARRAY247", quantity="V")
<i>FloatId</i>	PMWG13 (description="PHOTFARRAY248", quantity="V")
<i>FloatId</i>	PMWDP2 (description="PHOTFARRAY249", quantity="V")
<i>FloatId</i>	PMWE7 (description="PHOTFARRAY250", quantity="V")
<i>FloatId</i>	PMWD7 (description="PHOTFARRAY251", quantity="V")
<i>FloatId</i>	PMWF7 (description="PHOTFARRAY252", quantity="V")
<i>FloatId</i>	PMWE8 (description="PHOTFARRAY253", quantity="V")
<i>FloatId</i>	PMWG8 (description="PHOTFARRAY254", quantity="V")
<i>FloatId</i>	PMWF8 (description="PHOTFARRAY255", quantity="V")
<i>FloatId</i>	PMWE9 (description="PHOTFARRAY256", quantity="V")
<i>FloatId</i>	PMWG9 (description="PHOTFARRAY257", quantity="V")
<i>FloatId</i>	PMWD9 (description="PHOTFARRAY258", quantity="V")
<i>FloatId</i>	PMWF9 (description="PHOTFARRAY259", quantity="V")
<i>FloatId</i>	PMWE10 (description="PHOTFARRAY260", quantity="V")
<i>FloatId</i>	PMWG10 (description="PHOTFARRAY261", quantity="V")
<i>FloatId</i>	PMWC4 (description="PHOTFARRAY262", quantity="V")
<i>FloatId</i>	PMWB3 (description="PHOTFARRAY263", quantity="V")
<i>FloatId</i>	PMWC3 (description="PHOTFARRAY264", quantity="V")
<i>FloatId</i>	PMWB2 (description="PHOTFARRAY265", quantity="V")
<i>FloatId</i>	PMWD2 (description="PHOTFARRAY266", quantity="V")
<i>FloatId</i>	PMWA3 (description="PHOTFARRAY267", quantity="V")
<i>FloatId</i>	PMWA2 (description="PHOTFARRAY268", quantity="V")
<i>FloatId</i>	PMWC2 (description="PHOTFARRAY269", quantity="V")
<i>FloatId</i>	PMWB1 (description="PHOTFARRAY270", quantity="V")
<i>FloatId</i>	PMWA1 (description="PHOTFARRAY271", quantity="V")
<i>FloatId</i>	PMWDP1 (description="PHOTFARRAY272", quantity="V")
<i>FloatId</i>	PMWC1 (description="PHOTFARRAY273", quantity="V")
<i>FloatId</i>	PMWA7 (description="PHOTFARRAY274", quantity="V")
<i>FloatId</i>	PMWA6 (description="PHOTFARRAY275", quantity="V")
<i>FloatId</i>	PMWB6 (description="PHOTFARRAY276", quantity="V")
<i>FloatId</i>	PMWC7 (description="PHOTFARRAY277", quantity="V")
<i>FloatId</i>	PMWA5 (description="PHOTFARRAY278", quantity="V")
<i>FloatId</i>	PMWB5 (description="PHOTFARRAY279", quantity="V")
<i>FloatId</i>	PMWC6 (description="PHOTFARRAY280", quantity="V")
<i>FloatId</i>	PMWD6 (description="PHOTFARRAY281", quantity="V")
<i>FloatId</i>	PMWB4 (description="PHOTFARRAY282", quantity="V")
<i>FloatId</i>	PMWC5 (description="PHOTFARRAY283", quantity="V")
<i>FloatId</i>	PMWD4 (description="PHOTFARRAY284", quantity="V")
<i>FloatId</i>	PMWA4 (description="PHOTFARRAY285", quantity="V")
<i>FloatId</i>	PTCP1 (description="PHOTFARRAY286", quantity="V")

<i>FloatId</i>	PTCP2 (description="PHOTFARRAY287", quantity="V")
<i>FloatId</i>	PTCP3 (description="PHOTFARRAY288", quantity="V")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="resistance", description="Resistances table")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="quality", description="Quality control metric quantities")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="temperature", description="Temperature")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.19. SPIRE Product Level 0.5 - Photometry averaged blue product

<i>product (type="HPPAVGBS", description="Photometry averaged blue product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
DoubleParameter	Apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")

DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
DoubleParameter	wavelength (description="Filter reference wavelength", quantity="micrometer")
LongParameter	phot_red_FailedSPUBuffer (description="null", quantity="micrometer")
LongParameter	phot_blue_FailedSPUBuffer (description="null", quantity="micrometer")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="micrometer")
LongParameter	RemovedSetTime (description="Number of removed Frames due to setTime command", quantity="micrometer")
StringParameter	level (description="Product level", quantity="micrometer")
LongParameter	obsid (description="Observation Identifier", quantity="micrometer")
LongParameter	obsType (description="Observation type", quantity="micrometer")
LongParameter	obsCount (description="Observation counter", quantity="micrometer")
StringParameter	camera (description="Camera", quantity="micrometer")
LongParameter	odNumber (description="Operational Day Number count", quantity="micrometer")
StringParameter	cusMode (description="line or range spectroscopy", quantity="micrometer")
StringParameter	instMode (description="Instrument Mode", quantity="micrometer")
StringParameter	obsMode (description="Observation mode name", quantity="micrometer")
StringParameter	processingMode (description="SPG pipeline processing mode selected", quantity="micrometer")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT", quantity="micrometer")
StringParameter	observer (description="Observer name", quantity="micrometer")
StringParameter	proposal (description="Proposal name", quantity="micrometer")
StringParameter	pointingMode (description="Pointing mode", quantity="micrometer")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="micrometer")
StringParameter	origin (description="Site that created the product", quantity="micrometer")
StringParameter	aorLabel (description="AOR Label as entered in HSpot", quantity="micrometer")
StringParameter	aot (description="AOT Identifier", quantity="micrometer")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="micrometer")
StringParameter	missionConfig (description="Mission configuration", quantity="micrometer")
StringParameter	object (description="Target name", quantity="micrometer")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="micrometer")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")

DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="Observation Mode", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	debug (description="???", quantity="km s-1")
BooleanParameter	isBrightPacs (description="HSPOT: bright source for PACS (true/false)", quantity="km s-1")
BooleanParameter	isBrightSpire (description="HSPOT: bright source for SPIRE (true/false)", quantity="km s-1")
BooleanParameter	mapOrientationArray (description="HSPOT: The map orientation reference frame is 'array' (rather than array with sky constraints) true/false", quantity="km s-1")
BooleanParameter	pBool1 (description="???", quantity="km s-1")
BooleanParameter	pBool2 (description="???", quantity="km s-1")
DoubleParameter	mapOffsetY (description="HSPOT: offset to observation position from target in Y direction", quantity="arcmin")
DoubleParameter	mapOffsetZ (description="HSPOT: offset to observation position from target in Z direction", quantity="arcmin")
DoubleParameter	mapOrientationConFrom (description="HSPOT: Map orientation constraint lower limit", quantity="arcmin")
DoubleParameter	mapOrientationConTo (description="HSPOT: Map orientation constraint upper limit", quantity="arcmin")
DoubleParameter	mapSize1 (description="HSPOT: map length", quantity="arcmin")
DoubleParameter	mapSize2 (description="HSPOT: map height", quantity="arcmin")
DoubleParameter	pDouble1 (description="???", quantity="arcmin")
DoubleParameter	pDouble2 (description="???", quantity="arcmin")
LongParameter	pInt1 (description="???", quantity="arcmin")
LongParameter	pInt2 (description="???", quantity="arcmin")

StringParameter	blue (description="HSPOT: PACS blue filter selection (values blue1 or blue2)", quantity="arcmin")
StringParameter	bsmModel (description="???", quantity="arcmin")
StringParameter	bsmVersion (description="???", quantity="arcmin")
StringParameter	comVersion (description="???", quantity="arcmin")
StringParameter	flashVersion (description="???", quantity="arcmin")
StringParameter	mapScanRate (description="HSPOT: map scan rate (fast / slow)", quantity="arcmin")
StringParameter	opsVersion (description="???", quantity="arcmin")
StringParameter	pString1 (description="???", quantity="arcmin")
StringParameter	pString2 (description="???", quantity="arcmin")
StringParameter	photVersion (description="???", quantity="arcmin")
StringParameter	scanDirection (description="HSPOT: map scan direction (nominal / orthogonal)", quantity="arcmin")
StringParameter	spireVersion (description="???", quantity="arcmin")
DateParameter	odStartTime (description="Operational Day start time", quantity="arcmin")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="arcmin")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="arcmin")
DoubleParameter	BOL_VD_B_1 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_1 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_2 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_2 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_3 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_3 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_4 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_4 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_R_1 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_R_1 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_R_2 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_R_2 (description="null", quantity="arcmin")
DoubleParameter	mapScanVelocity (description="Nominal scanning velocity", quantity="arcsec s-1")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
<i>Columns</i>	
<i>array dataset</i>	(description="null")
<i>Metadata</i>	

<i>Columns</i>		
<i>Double3d</i>	(description="null", quantity="none")	
	()	
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")	

5.2.20. SPIRE Product Level 0.5 - Photometry averaged red product

<i>product (type="HPPAVGRS", description="Photometry averaged red product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
DoubleParameter	Apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
DoubleParameter	wavelength (description="Filter reference wavelength", quantity="micrometer")
LongParameter	phot_red_FailedSPUBuffer (description="null", quantity="micrometer")
LongParameter	phot_blue_FailedSPUBuffer (description="null", quantity="micrometer")
BooleanParameter	pacsSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="micrometer")
LongParameter	RemovedSetTime (description="Number of removed Frames due to setTime command", quantity="micrometer")
StringParameter	level (description="Product level", quantity="micrometer")

LongParameter	obsid (description="Observation Identifier", quantity="micrometer")
LongParameter	obsType (description="Observation type", quantity="micrometer")
LongParameter	obsCount (description="Observation counter", quantity="micrometer")
StringParameter	camera (description="Camera", quantity="micrometer")
LongParameter	odNumber (description="Operational Day Number count", quantity="micrometer")
StringParameter	cusMode (description="line or range spectroscopy", quantity="micrometer")
StringParameter	instMode (description="Instrument Mode", quantity="micrometer")
StringParameter	obsMode (description="Observation mode name", quantity="micrometer")
StringParameter	processingMode (description="SPG pipeline processing mode selected", quantity="micrometer")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT", quantity="micrometer")
StringParameter	observer (description="Observer name", quantity="micrometer")
StringParameter	proposal (description="Proposal name", quantity="micrometer")
StringParameter	pointingMode (description="Pointing mode", quantity="micrometer")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="micrometer")
StringParameter	origin (description="Site that created the product", quantity="micrometer")
StringParameter	aorLabel (description="AOR Label as entered in HSpot", quantity="micrometer")
StringParameter	aot (description="AOT Identifier", quantity="micrometer")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="micrometer")
StringParameter	missionConfig (description="Mission configuration", quantity="micrometer")
StringParameter	object (description="Target name", quantity="micrometer")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="micrometer")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")

LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="Observation Mode", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	debug (description="???", quantity="km s-1")
BooleanParameter	isBrightPacs (description="HSPOT: bright source for PACS (true/false)", quantity="km s-1")
BooleanParameter	isBrightSpire (description="HSPOT: bright source for SPIRE (true/false)", quantity="km s-1")
BooleanParameter	mapOrientationArray (description="HSPOT: The map orientation reference frame is 'array' (rather than array with sky constraints) true/false", quantity="km s-1")
BooleanParameter	pBool1 (description="???", quantity="km s-1")
BooleanParameter	pBool2 (description="???", quantity="km s-1")
DoubleParameter	mapOffsetY (description="HSPOT: offset to observation position from target in Y direction", quantity="arcmin")
DoubleParameter	mapOffsetZ (description="HSPOT: offset to observation position from target in Z direction", quantity="arcmin")
DoubleParameter	mapOrientationConFrom (description="HSPOT: Map orientation constraint lower limit", quantity="arcmin")
DoubleParameter	mapOrientationConTo (description="HSPOT: Map orientation constraint upper limit", quantity="arcmin")
DoubleParameter	mapSize1 (description="HSPOT: map length", quantity="arcmin")
DoubleParameter	mapSize2 (description="HSPOT: map height", quantity="arcmin")
DoubleParameter	pDouble1 (description="???", quantity="arcmin")
DoubleParameter	pDouble2 (description="???", quantity="arcmin")
LongParameter	pInt1 (description="???", quantity="arcmin")
LongParameter	pInt2 (description="???", quantity="arcmin")
StringParameter	blue (description="HSPOT: PACS blue filter selection (values blue1 or blue2)", quantity="arcmin")
StringParameter	bsmModel (description="???", quantity="arcmin")
StringParameter	bsmVersion (description="???", quantity="arcmin")
StringParameter	comVersion (description="???", quantity="arcmin")
StringParameter	flashVersion (description="???", quantity="arcmin")
StringParameter	mapScanRate (description="HSPOT: map scan rate (fast / slow)", quantity="arcmin")
StringParameter	opsVersion (description="???", quantity="arcmin")
StringParameter	pString1 (description="???", quantity="arcmin")
StringParameter	pString2 (description="???", quantity="arcmin")
StringParameter	photVersion (description="???", quantity="arcmin")

StringParameter	scanDirection (description="HSPOT: map scan direction (nominal / orthogonal)", quantity="arcmin")
StringParameter	spireVersion (description="???", quantity="arcmin")
DateParameter	odStartTime (description="Operational Day start time", quantity="arcmin")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="arcmin")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="arcmin")
DoubleParameter	BOL_VD_B_1 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_1 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_2 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_2 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_3 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_3 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_4 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_4 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_R_1 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_R_1 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_R_2 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_R_2 (description="null", quantity="arcmin")
DoubleParameter	mapScanVelocity (description="Nominal scanning velocity", quantity="arcsec s-1")
LongParameter	sliceNumber (description="Slice number", quantity="arcsec s-1")
BooleanParameter	isInterlaced (description="null", quantity="arcsec s-1")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
<i>Columns</i>	
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double3d</i>	(description="null", quantity="none")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.21. SPIRE Product Level 0.5 - Nominal House Keeping Timeline

<i>product</i> (type="NHKT", description="Nominal House Keeping Timeline")	
<i>Metadata</i>	

StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	type (description="Product Type Identification", quantity="arcsec/year")
StringParameter	description (description="Name of this product", quantity="arcsec/year")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec/year")

StringParameter	bbTypeName (description="Building block type name", quantity="arcsec/year")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
Columns	
table dataset	(name="signal", description="Signal timelines")
Metadata	
Columns	
DoubleId	sampleTime (description="Sample time", quantity="TAI")
StringId	NHK_VERS (description="NHK_VERS", quantity="1")
StringId	NHK_TYPE (description="NHK_TYPE", quantity="1")
StringId	NHK_DFHFLAG (description="NHK_DFHFLAG", quantity="1")
ShortId	NHK_APID (description="NHK_APID", quantity="1")
StringId	NHK_SEGFLAG (description="NHK_SEGFLAG", quantity="1")
ShortId	NHK_SSC (description="NHK_SSC", quantity="1")
IntId	NHK_PKTLEN (description="NHK_PKTLEN", quantity="1")
StringId	NHK_PUSVERS (description="NHK_PUSVERS", quantity="1")
ShortId	NHK_PKTTYPE (description="NHK_PKTTYPE", quantity="1")
ShortId	NHK_PKTSTYPE (description="NHK_PKTSTYPE", quantity="1")
LongId	NHK_PKTCTIME (description="NHK_PKTCTIME", quantity="1")
IntId	NHK_PKTFTIME (description="NHK_PKTFTIME", quantity="1")
StringId	BBFULLTYPE (description="BBFULLTYPE", quantity="1")
StringId	MODE (description="MODE", quantity="1")
IntId	STEP (description="STEP", quantity="1")
StringId	THSK (description="THSK", quantity="1")
LongId	TRESET (description="TRESET", quantity="1")
IntId	TCRECV (description="TCRECV", quantity="1")
IntId	TCRECN (description="TCRECN", quantity="1")
IntId	TCEXEC (description="TCEXEC", quantity="1")
IntId	TCEXEN (description="TCEXEN", quantity="1")
IntId	TM1N (description="TM1N", quantity="1")
IntId	TM2N (description="TM2N", quantity="1")
IntId	TM3N (description="TM3N", quantity="1")
IntId	TM4N (description="TM4N", quantity="1")
IntId	TM5N (description="TM5N", quantity="1")
IntId	DCUFRAMECNT (description="DCUFRAMECNT", quantity="1")
IntId	MCUFRAMECNT (description="MCUFRAMECNT", quantity="1")
IntId	SCUFRAMECNT (description="SCUFRAMECNT", quantity="1")
StringId	TSYNC (description="TSYNC", quantity="1")
StringId	TDIFF (description="TDIFF", quantity="1")
StringId	MEMSTAT_1 (description="MEMSTAT_1", quantity="1")
StringId	MEMSTAT_2 (description="MEMSTAT_2", quantity="1")

<i>String1d</i>	MEMSTAT_3 (description="MEMSTAT_3", quantity="1")
<i>String1d</i>	MONSTAT (description="MONSTAT", quantity="1")
<i>String1d</i>	DCULSIFSTAT (description="DCULSIFSTAT", quantity="1")
<i>String1d</i>	DCUHSIFMODE (description="DCUHSIFMODE", quantity="1")
<i>String1d</i>	MCULSIFSTAT (description="MCULSIFSTAT", quantity="1")
<i>String1d</i>	MCUHSIFMODE (description="MCUHSIFMODE", quantity="1")
<i>String1d</i>	SCULSIFSTAT (description="SCULSIFSTAT", quantity="1")
<i>String1d</i>	SCUHSMODE (description="SCUHSMODE", quantity="1")
<i>Int1d</i>	BBCOUNT (description="BBCOUNT", quantity="1")
<i>Int1d</i>	VMSTAT (description="VMSTAT", quantity="1")
<i>Int1d</i>	VM1STAT (description="VM1STAT", quantity="1")
<i>Int1d</i>	VM2STAT (description="VM2STAT", quantity="1")
<i>Int1d</i>	VM3STAT (description="VM3STAT", quantity="1")
<i>Int1d</i>	VMSTATAFX (description="VMSTATAFX", quantity="1")
<i>Int1d</i>	SD_VALUE0 (description="SD_VALUE0", quantity="1")
<i>Int1d</i>	SD_ADDRESS0 (description="SD_ADDRESS0", quantity="1")
<i>Int1d</i>	SD_VALUE1 (description="SD_VALUE1", quantity="1")
<i>Int1d</i>	SD_ADDRESS1 (description="SD_ADDRESS1", quantity="1")
<i>Int1d</i>	SD_VALUE2 (description="SD_VALUE2", quantity="1")
<i>Int1d</i>	SD_ADDRESS2 (description="SD_ADDRESS2", quantity="1")
<i>Int1d</i>	SD_VALUE3 (description="SD_VALUE3", quantity="1")
<i>Int1d</i>	SD_ADDRESS3 (description="SD_ADDRESS3", quantity="1")
<i>Double1d</i>	DPUP5V (description="DPUP5V", quantity="V")
<i>Double1d</i>	DPUP15V (description="DPUP15V", quantity="V")
<i>Double1d</i>	DPUM15V (description="DPUM15V", quantity="V")
<i>Double1d</i>	DPUTEMP (description="DPUTEMP", quantity="K")
<i>Int1d</i>	CPULOAD (description="CPULOAD", quantity="1")
<i>Long1d</i>	LSLOAD (description="LSLOAD", quantity="1")
<i>Double1d</i>	DPUP2_5V (description="DPUP2_5V", quantity="V")
<i>String1d</i>	DCUDATAMODE (description="DCUDATAMODE", quantity="1")
<i>String1d</i>	DCUDATAFRMS (description="DCUDATAFRMS", quantity="1")
<i>String1d</i>	DCUDATASTAT (description="DCUDATASTAT", quantity="1")
<i>Int1d</i>	PHOTBIASDIV (description="PHOTBIASDIV", quantity="1")
<i>String1d</i>	PHOTBIASMODE (description="PHOTBIASMODE", quantity="1")
<i>Int1d</i>	PHOTMCLKDIV (description="PHOTMCLKDIV", quantity="1")
<i>Double1d</i>	PSWBIAS (description="PSWBIAS", quantity="V")
<i>Double1d</i>	PMWBIAS (description="PMWBIAS", quantity="V")
<i>Double1d</i>	PLWBIAS (description="PLWBIAS", quantity="V")
<i>Double1d</i>	TCBIAS (description="TCBIAS", quantity="V")
<i>Double1d</i>	PSWPHASE (description="PSWPHASE", quantity="deg")
<i>Double1d</i>	PMWPHASE (description="PMWPHASE", quantity="deg")
<i>Double1d</i>	PLWPHASE (description="PLWPHASE", quantity="deg")

<i>DoubleId</i>	TCPHASE (description="TCPHASE", quantity="deg")
<i>IntId</i>	PSWJFETSTAT (description="PSWJFETSTAT", quantity="1")
<i>StringId</i>	PSW_VDD_JFET1 (description="PSW_VDD_JFET1", quantity="1")
<i>StringId</i>	PSW_VDD_JFET2 (description="PSW_VDD_JFET2", quantity="1")
<i>StringId</i>	PSW_VDD_JFET3 (description="PSW_VDD_JFET3", quantity="1")
<i>StringId</i>	PSW_VDD_JFET4 (description="PSW_VDD_JFET4", quantity="1")
<i>StringId</i>	PSW_VDD_JFET5 (description="PSW_VDD_JFET5", quantity="1")
<i>StringId</i>	PSW_VDD_JFET6 (description="PSW_VDD_JFET6", quantity="1")
<i>IntId</i>	PMLWJFETSTAT (description="PMLWJFETSTAT", quantity="1")
<i>StringId</i>	PMW_VDD_JFET1 (description="PMW_VDD_JFET1", quantity="1")
<i>StringId</i>	PMW_VDD_JFET2 (description="PMW_VDD_JFET2", quantity="1")
<i>StringId</i>	PMW_VDD_JFET3 (description="PMW_VDD_JFET3", quantity="1")
<i>StringId</i>	PMW_VDD_JFET4 (description="PMW_VDD_JFET4", quantity="1")
<i>StringId</i>	PLW_VDD_JFET1 (description="PLW_VDD_JFET1", quantity="1")
<i>StringId</i>	PLW_VDD_JFET2 (description="PLW_VDD_JFET2", quantity="1")
<i>StringId</i>	TC_VDD_JFET (description="TC_VDD_JFET", quantity="1")
<i>DoubleId</i>	PSWJFET1V (description="PSWJFET1V", quantity="V")
<i>DoubleId</i>	PSWJFET2V (description="PSWJFET2V", quantity="V")
<i>DoubleId</i>	PSWJFET3V (description="PSWJFET3V", quantity="V")
<i>DoubleId</i>	PSWJFET4V (description="PSWJFET4V", quantity="V")
<i>DoubleId</i>	PSWJFET5V (description="PSWJFET5V", quantity="V")
<i>DoubleId</i>	PSWJFET6V (description="PSWJFET6V", quantity="V")
<i>DoubleId</i>	PMWJFET1V (description="PMWJFET1V", quantity="V")
<i>DoubleId</i>	PMWJFET2V (description="PMWJFET2V", quantity="V")
<i>DoubleId</i>	PMWJFET3V (description="PMWJFET3V", quantity="V")
<i>DoubleId</i>	PMWJFET4V (description="PMWJFET4V", quantity="V")
<i>DoubleId</i>	PLWJFET1V (description="PLWJFET1V", quantity="V")
<i>DoubleId</i>	PLWJFET2V (description="PLWJFET2V", quantity="V")
<i>DoubleId</i>	PHOTHTRV (description="PHOTHTRV", quantity="V")
<i>DoubleId</i>	TCJFETV (description="TCJFETV", quantity="V")
<i>IntId</i>	SPECBIASDIV (description="SPECBIASDIV", quantity="1")
<i>StringId</i>	SPECBIASMODE (description="SPECBIASMODE", quantity="1")
<i>IntId</i>	SPECMCLKDIV (description="SPECMCLKDIV", quantity="1")
<i>DoubleId</i>	SSWBIAS (description="SSWBIAS", quantity="V")
<i>DoubleId</i>	SLWBIAS (description="SLWBIAS", quantity="V")
<i>DoubleId</i>	SSWPHASE (description="SSWPHASE", quantity="deg")
<i>DoubleId</i>	SLWPHASE (description="SLWPHASE", quantity="deg")
<i>IntId</i>	SPECJFETSTAT (description="SPECJFETSTAT", quantity="1")
<i>StringId</i>	SLW_VDD_JFET1 (description="SLW_VDD_JFET1", quantity="1")
<i>StringId</i>	SSW_VDD_JFET1 (description="SSW_VDD_JFET1", quantity="1")
<i>StringId</i>	SSW_VDD_JFET2 (description="SSW_VDD_JFET2", quantity="1")
<i>DoubleId</i>	SSWJFET1V (description="SSWJFET1V", quantity="V")

<i>Double1d</i>	SSWJFET2V (description="SSWJFET2V", quantity="V")
<i>Double1d</i>	SLWJFET1V (description="SLWJFET1V", quantity="V")
<i>Double1d</i>	SPECHTRV (description="SPECHTRV", quantity="V")
<i>Double1d</i>	TC1TEMP (description="TC1TEMP", quantity="V")
<i>Double1d</i>	TC2TEMP (description="TC2TEMP", quantity="V")
<i>Double1d</i>	TC3TEMP (description="TC3TEMP", quantity="V")
<i>Double1d</i>	BIASP5V (description="BIASP5V", quantity="V")
<i>Double1d</i>	BIASP9V (description="BIASP9V", quantity="V")
<i>Double1d</i>	BIASM9V (description="BIASM9V", quantity="V")
<i>Int1d</i>	OBSVER (description="OBSVER", quantity="1")
<i>Short1d</i>	OBSVER1 (description="OBSVER1", quantity="1")
<i>Short1d</i>	OBSVER2 (description="OBSVER2", quantity="1")
<i>String1d</i>	OBSVER3 (description="OBSVER3", quantity="1")
<i>String1d</i>	TMMODE (description="TMMODE", quantity="1")
<i>Int1d</i>	FIFO_DF_FLAG (description="FIFO_DF_FLAG", quantity="1")
<i>Double1d</i>	PLIAP5V (description="PLIAP5V", quantity="V")
<i>Double1d</i>	PLIAP9V (description="PLIAP9V", quantity="V")
<i>Double1d</i>	PLIAM9V (description="PLIAM9V", quantity="V")
<i>Double1d</i>	SLIAP5V (description="SLIAP5V", quantity="V")
<i>Double1d</i>	SLIAP9V (description="SLIAP9V", quantity="V")
<i>Double1d</i>	SLIAM9V (description="SLIAM9V", quantity="V")
<i>Double1d</i>	LIAP9TEMP (description="LIAP9TEMP", quantity="K")
<i>Double1d</i>	LIAP8TEMP (description="LIAP8TEMP", quantity="K")
<i>Double1d</i>	LIAP7TEMP (description="LIAP7TEMP", quantity="K")
<i>Double1d</i>	LIAP6TEMP (description="LIAP6TEMP", quantity="K")
<i>Double1d</i>	LIAP5TEMP (description="LIAP5TEMP", quantity="K")
<i>Double1d</i>	LIAP4TEMP (description="LIAP4TEMP", quantity="K")
<i>Double1d</i>	LIAP3TEMP (description="LIAP3TEMP", quantity="K")
<i>Double1d</i>	LIAP2TEMP (description="LIAP2TEMP", quantity="K")
<i>Double1d</i>	LIAP1TEMP (description="LIAP1TEMP", quantity="K")
<i>Double1d</i>	LIAS1TEMP (description="LIAS1TEMP", quantity="K")
<i>Double1d</i>	LIAS2TEMP (description="LIAS2TEMP", quantity="K")
<i>Double1d</i>	LIAS3TEMP (description="LIAS3TEMP", quantity="K")
<i>Double1d</i>	BIASTEMP (description="BIASTEMP", quantity="K")
<i>Double1d</i>	DAQTEMP (description="DAQTEMP", quantity="K")
<i>Int1d</i>	LIASSTAT (description="LIASSTAT", quantity="1")
<i>String1d</i>	LIAP1STAT (description="LIAP1STAT", quantity="1")
<i>String1d</i>	LIAP2STAT (description="LIAP2STAT", quantity="1")
<i>String1d</i>	LIAP3STAT (description="LIAP3STAT", quantity="1")
<i>String1d</i>	LIAP4STAT (description="LIAP4STAT", quantity="1")
<i>String1d</i>	LIAP5STAT (description="LIAP5STAT", quantity="1")
<i>String1d</i>	LIAP6STAT (description="LIAP6STAT", quantity="1")

<i>String1d</i>	LIAP7STAT (description="LIAP7STAT", quantity="1")
<i>String1d</i>	LIAP8STAT (description="LIAP8STAT", quantity="1")
<i>String1d</i>	LIAP9STAT (description="LIAP9STAT", quantity="1")
<i>String1d</i>	LIAS1STAT (description="LIAS1STAT", quantity="1")
<i>String1d</i>	LIAS2STAT (description="LIAS2STAT", quantity="1")
<i>String1d</i>	LIAS3STAT (description="LIAS3STAT", quantity="1")
<i>Int1d</i>	MCUIFSTAT (description="MCUIFSTAT", quantity="1")
<i>Int1d</i>	MCUIFCTRL (description="MCUIFCTRL", quantity="1")
<i>Int1d</i>	MCUSSDEL (description="MCUSSDEL", quantity="1")
<i>Double1d</i>	MCUP5V (description="MCUP5V", quantity="V")
<i>Double1d</i>	MCUP14V (description="MCUP14V", quantity="V")
<i>Double1d</i>	MCUM14V (description="MCUM14V", quantity="V")
<i>Double1d</i>	MCUP15V (description="MCUP15V", quantity="V")
<i>Double1d</i>	MCUM15V (description="MCUM15V", quantity="V")
<i>Double1d</i>	MCUMACTEMP (description="MCUMACTEMP", quantity="K")
<i>Double1d</i>	MCUSMECTEMP (description="MCUSMECTEMP", quantity="K")
<i>Double1d</i>	MCUBSMTEMP (description="MCUBSMTEMP", quantity="K")
<i>String1d</i>	MCUERR (description="MCUERR", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTLSW (description="MCUSCHEDCNTLSW", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTMSW (description="MCUSCHEDCNTMSW", quantity="1")
<i>Int1d</i>	MCUTM10TSAMPLE (description="MCUTM10TSAMPLE", quantity="1")
<i>String1d</i>	MCUFRAMESTART (description="MCUFRAMESTART", quantity="1")
<i>Int1d</i>	MCUTM12TSAMPLE (description="MCUTM12TSAMPLE", quantity="1")
<i>Int1d</i>	MCUFRAMES (description="MCUFRAMES", quantity="1")
<i>Int1d</i>	MCUTM14TSAMPLE (description="MCUTM14TSAMPLE", quantity="1")
<i>Int1d</i>	MCUTM15TSAMPLE (description="MCUTM15TSAMPLE", quantity="1")
<i>String1d</i>	MCUTMSTATUS (description="MCUTMSTATUS", quantity="1")
<i>String1d</i>	MCUBOOTSTAT (description="MCUBOOTSTAT", quantity="1")
<i>Int1d</i>	MCUDLOADCONF (description="MCUDLOADCONF", quantity="1")
<i>Int1d</i>	SMECLOSTCOUNT (description="SMECLOSTCOUNT", quantity="1")
<i>Int1d</i>	SMECENCPWR (description="SMECENCPWR", quantity="1")
<i>String1d</i>	SMECLVDPWR (description="SMECLVDPWR", quantity="1")
<i>String1d</i>	SMECLATCHSTAT (description="SMECLATCHSTAT", quantity="1")
<i>String1d</i>	SMECLOOPMODE (description="SMECLOOPMODE", quantity="1")
<i>Double1d</i>	SCANSTART (description="SCANSTART", quantity="cm")
<i>Double1d</i>	SCANEND (description="SCANEND", quantity="cm")
<i>Int1d</i>	SCANFSPEED (description="SCANFSPEED", quantity="1")

<i>Int1d</i>	SCANS (description="SCANS", quantity="1")
<i>String1d</i>	SCANMODE (description="SCANMODE", quantity="1")
<i>Int1d</i>	SMECKP (description="SMECKP", quantity="1")
<i>Int1d</i>	SMECKD (description="SMECKD", quantity="1")
<i>Int1d</i>	SMECDFILT (description="SMECDFILT", quantity="1")
<i>Int1d</i>	SMECKI (description="SMECKI", quantity="1")
<i>Int1d</i>	SMECINTLIMIT (description="SMECINTLIMIT", quantity="1")
<i>Int1d</i>	SMECINTTHRESH (description="SMECINTTHRESH", quantity="1")
<i>Int1d</i>	SMECRATELIMIT (description="SMECRATELIMIT", quantity="1")
<i>Int1d</i>	SMECDFILT2 (description="SMECDFILT2", quantity="1")
<i>Int1d</i>	SMECFFGAIN (description="SMECFFGAIN", quantity="1")
<i>Int1d</i>	SMECFFOFFSET (description="SMECFFOFFSET", quantity="1")
<i>Int1d</i>	SCANRSPEED (description="SCANRSPEED", quantity="1")
<i>Int1d</i>	SMECBEMFGAIN (description="SMECBEMFGAIN", quantity="1")
<i>Int1d</i>	SMECMOTORRES (description="SMECMOTORRES", quantity="1")
<i>Int1d</i>	SMECMOTORBEMF (description="SMECMOTORBEMF", quantity="1")
<i>Int1d</i>	SMECRATESCALE (description="SMECRATESCALE", quantity="1")
<i>Double1d</i>	SMECLVDTOFFSET (description="SMECLVDTOFFSET", quantity="cm")
<i>Double1d</i>	SMECLVDTSCALE (description="SMECLVDTSCALE", quantity="cm")
<i>String1d</i>	SMECSTAT (description="SMECSTAT", quantity="1")
<i>String1d</i>	SMECFLAG (description="SMECFLAG", quantity="1")
<i>String1d</i>	SMECLVDTSIGN (description="SMECLVDTSIGN", quantity="1")
<i>String1d</i>	SMECINIT (description="SMECINIT", quantity="1")
<i>String1d</i>	SMECSCANDIR (description="SMECSCANDIR", quantity="1")
<i>Short1d</i>	SMECSCANCNT (description="SMECSCANCNT", quantity="1")
<i>Double1d</i>	SMECENCPOSN (description="SMECENCPOSN", quantity="cm")
<i>Int1d</i>	SMECENC SIG1 (description="SMECENC SIG1", quantity="1")
<i>Int1d</i>	SMECENC SIG2 (description="SMECENC SIG2", quantity="1")
<i>Int1d</i>	SMECENC SIG3 (description="SMECENC SIG3", quantity="1")
<i>Double1d</i>	SMECLVDTPOSN (description="SMECLVDTPOSN", quantity="cm")
<i>Int1d</i>	SMECLVDTACSIG (description="SMECLVDTACSIG", quantity="1")
<i>Int1d</i>	SMECLVDTDCSIG (description="SMECLVDTDCSIG", quantity="1")
<i>Double1d</i>	SMECTRAJPOSN (description="SMECTRAJPOSN", quantity="cm")
<i>Int1d</i>	SMECDACVAL (description="SMECDACVAL", quantity="1")
<i>Double1d</i>	SMECPOSNDELTA (description="SMECPOSNDELTA", quantity="cm")
<i>Double1d</i>	SMECENC FINEPOSN (description="SMECENC FINEPOSN", quantity="cm")
<i>Int1d</i>	SMECMEANSPEED (description="SMECMEANSPEED", quantity="1")

<i>Double1d</i>	SMECSCANPOSNERR (description="SMECSCANPOSNERR", quantity="cm")
<i>Double1d</i>	SMECMOTORCURR (description="SMECMOTORCURR", quantity="A")
<i>Double1d</i>	SMECMOTORVOLT (description="SMECMOTORVOLT", quantity="V")
<i>Int1d</i>	SMECENC SIG1AMP (description="SMECENC SIG1AMP", quantity="1")
<i>Int1d</i>	SMECENC SIG1OFF (description="SMECENC SIG1OFF", quantity="1")
<i>Int1d</i>	SMECENC SIG2AMP (description="SMECENC SIG2AMP", quantity="1")
<i>Int1d</i>	SMECENC SIG2OFF (description="SMECENC SIG2OFF", quantity="1")
<i>Int1d</i>	SMECENC SIG3AMP (description="SMECENC SIG3AMP", quantity="1")
<i>Int1d</i>	SMECENC SIG3OFF (description="SMECENC SIG3OFF", quantity="1")
<i>String1d</i>	CHOPSENSPWR (description="CHOPSENSPWR", quantity="1")
<i>String1d</i>	CHOPLOOPMODE (description="CHOPLOOPMODE", quantity="1")
<i>Int1d</i>	CHOPPOSN (description="CHOPPOSN", quantity="1")
<i>Int1d</i>	CHOPPOSN2 (description="CHOPPOSN2", quantity="1")
<i>String1d</i>	BSMMODE (description="BSMMODE", quantity="1")
<i>Int1d</i>	CHOPFFOFFSET (description="CHOPFFOFFSET", quantity="1")
<i>Int1d</i>	CHOPKP (description="CHOPKP", quantity="1")
<i>Int1d</i>	CHOPKD (description="CHOPKD", quantity="1")
<i>Int1d</i>	CHOPKI (description="CHOPKI", quantity="1")
<i>Int1d</i>	CHOPINTREF (description="CHOPINTREF", quantity="1")
<i>Int1d</i>	CHOPINTLIMIT (description="CHOPINTLIMIT", quantity="1")
<i>Int1d</i>	CHOPFFGAIN (description="CHOPFFGAIN", quantity="1")
<i>Int1d</i>	CHOPFFGAINDIFF (description="CHOPFFGAINDIFF", quantity="1")
<i>Int1d</i>	CHOPDIFFTC1 (description="CHOPDIFFTC1", quantity="1")
<i>Int1d</i>	CHOPDIFFTC2 (description="CHOPDIFFTC2", quantity="1")
<i>Int1d</i>	CHOPRATELIMIT (description="CHOPRATELIMIT", quantity="1")
<i>Int1d</i>	CHOPMOTBEMFGAIN (description="CHOPMOTBEMFGAIN", quantity="1")
<i>Int1d</i>	CHOPMOTRES (description="CHOPMOTRES", quantity="1")
<i>Int1d</i>	CHOPMOTIND (description="CHOPMOTIND", quantity="1")
<i>Int1d</i>	CHOPRATESCALE (description="CHOPRATESCALE", quantity="1")
<i>Int1d</i>	CHOPPOSNSCALE (description="CHOPPOSNSCALE", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL1 (description="CHOPBEMFRATFIL1", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL2 (description="CHOPBEMFRATFIL2", quantity="1")
<i>Int1d</i>	CHOPJIGGCOUPLE (description="CHOPJIGGCOUPLE", quantity="1")
<i>String1d</i>	BSMSTAT (description="BSMSTAT", quantity="1")
<i>Int1d</i>	CHOPPOSNERR (description="CHOPPOSNERR", quantity="1")

<i>Int1d</i>	CHOPSENSSIG (description="CHOPSENSSIG", quantity="1")
<i>Double1d</i>	CHOPDACVAL (description="CHOPDACVAL", quantity="V")
<i>Double1d</i>	CHOPMOTORCURR (description="CHOPMOTORCURR", quantity="A")
<i>Double1d</i>	CHOPMOTORVOLT (description="CHOPMOTORVOLT", quantity="V")
<i>String1d</i>	JIGGSENSPWR (description="JIGGSENSPWR", quantity="1")
<i>String1d</i>	JIGGLOOPMODE (description="JIGGLOOPMODE", quantity="1")
<i>Int1d</i>	JIGGPOSN (description="JIGGPOSN", quantity="1")
<i>Int1d</i>	JIGGPOSN2 (description="JIGGPOSN2", quantity="1")
<i>Int1d</i>	JIGGFFOFFSET (description="JIGGFFOFFSET", quantity="1")
<i>Int1d</i>	JIGGKP (description="JIGGKP", quantity="1")
<i>Int1d</i>	JIGGKD (description="JIGGKD", quantity="1")
<i>Int1d</i>	JIGGKI (description="JIGGKI", quantity="1")
<i>Int1d</i>	JIGGINTREF (description="JIGGINTREF", quantity="1")
<i>Int1d</i>	JIGGINTLIMIT (description="JIGGINTLIMIT", quantity="1")
<i>Int1d</i>	JIGGFFGAIN (description="JIGGFFGAIN", quantity="1")
<i>Int1d</i>	JIGGFFGAINDIFF (description="JIGGFFGAINDIFF", quantity="1")
<i>Int1d</i>	JIGGDIFFTC1 (description="JIGGDIFFTC1", quantity="1")
<i>Int1d</i>	JIGGDIFFTC2 (description="JIGGDIFFTC2", quantity="1")
<i>Int1d</i>	JIGGRATELIMIT (description="JIGGRATELIMIT", quantity="1")
<i>Int1d</i>	JIGGMOTBEMFGAIN (description="JIGGMOTBEMFGAIN", quantity="1")
<i>Int1d</i>	JIGGMOTRES (description="JIGGMOTRES", quantity="1")
<i>Int1d</i>	JIGGMOTIND (description="JIGGMOTIND", quantity="1")
<i>Int1d</i>	JIGGRATESCALE (description="JIGGRATESCALE", quantity="1")
<i>Int1d</i>	JIGGPOSNSCALE (description="JIGGPOSNSCALE", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL1 (description="JIGGBEMFRATFIL1", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL2 (description="JIGGBEMFRATFIL2", quantity="1")
<i>Int1d</i>	JIGGCHOPCOUPLE (description="JIGGCHOPCOUPLE", quantity="1")
<i>Int1d</i>	JIGGPOSNERR (description="JIGGPOSNERR", quantity="1")
<i>Int1d</i>	JIGGSENSSIG (description="JIGGSENSSIG", quantity="1")
<i>Double1d</i>	JIGGDACVAL (description="JIGGDACVAL", quantity="V")
<i>Double1d</i>	JIGGMOTORCURR (description="JIGGMOTORCURR", quantity="A")
<i>Double1d</i>	JIGGMOTORVOLT (description="JIGGMOTORVOLT", quantity="V")
<i>Int1d</i>	MCUPCKT10PARM05 (description="MCUPCKT10PARM05", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM01 (description="MCUPCKT10PARM01", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM02 (description="MCUPCKT10PARM02", quantity="1")

<i>Int1d</i>	MCUPCKT10PARM03 (description="MCUPCKT10PARM03", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM04 (description="MCUPCKT10PARM04", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM01 (description="MCUPCKT12PARM01", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM02 (description="MCUPCKT12PARM02", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM03 (description="MCUPCKT12PARM03", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM04 (description="MCUPCKT12PARM04", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM05 (description="MCUPCKT12PARM05", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM06 (description="MCUPCKT12PARM06", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM01 (description="MCUPCKT14PARM01", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM02 (description="MCUPCKT14PARM02", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM03 (description="MCUPCKT14PARM03", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM04 (description="MCUPCKT14PARM04", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM05 (description="MCUPCKT14PARM05", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM06 (description="MCUPCKT14PARM06", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM07 (description="MCUPCKT14PARM07", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM08 (description="MCUPCKT14PARM08", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM09 (description="MCUPCKT14PARM09", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM10 (description="MCUPCKT14PARM10", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM11 (description="MCUPCKT14PARM11", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM12 (description="MCUPCKT14PARM12", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM13 (description="MCUPCKT14PARM13", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM14 (description="MCUPCKT14PARM14", quantity="1")
<i>Int1d</i>	SCUIFSTAT (description="SCUIFSTAT", quantity="1")
<i>Int1d</i>	SCUIFCTRL (description="SCUIFCTRL", quantity="1")
<i>Int1d</i>	SCUSSDEL (description="SCUSSDEL", quantity="1")
<i>Int1d</i>	SCUSTAT (description="SCUSTAT", quantity="1")

<i>Int1d</i>	SCUTEMPSTAT (description="SCUTEMPSTAT", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT (description="SCUDCDCSTAT", quantity="1")
<i>String1d</i>	PLIABITSTAT (description="PLIABITSTAT", quantity="1")
<i>String1d</i>	SLIABITSTAT (description="SLIABITSTAT", quantity="1")
<i>String1d</i>	MCUBITSTAT (description="MCUBITSTAT", quantity="1")
<i>Double1d</i>	SCUP5V (description="SCUP5V", quantity="V")
<i>Double1d</i>	SCUP9V (description="SCUP9V", quantity="V")
<i>Double1d</i>	SCUM9V (description="SCUM9V", quantity="V")
<i>Double1d</i>	EVHSV (description="EVHSV", quantity="V")
<i>Double1d</i>	SPHSV (description="SPHSV", quantity="V")
<i>Double1d</i>	TCHTRV (description="TCHTRV", quantity="V")
<i>Double1d</i>	SPHTRV (description="SPHTRV", quantity="V")
<i>Double1d</i>	CCUTEMP (description="CCUTEMP", quantity="K")
<i>Double1d</i>	TCUTEMP (description="TCUTEMP", quantity="K")
<i>Double1d</i>	PSUTEMP1 (description="PSUTEMP1", quantity="K")
<i>Int1d</i>	SCUFRAMECONF (description="SCUFRAMECONF", quantity="1")
<i>Int1d</i>	SCUFRAMES (description="SCUFRAMES", quantity="1")
<i>Int1d</i>	SCUFRAMESTAT (description="SCUFRAMESTAT", quantity="1")
<i>Int1d</i>	SCUCTRL (description="SCUCTRL", quantity="1")
<i>Double1d</i>	PCALV (description="PCALV", quantity="V")
<i>Double1d</i>	SCAL2V (description="SCAL2V", quantity="V")
<i>Double1d</i>	SCAL4V (description="SCAL4V", quantity="V")
<i>Double1d</i>	SCUCHT2_5V (description="SCUCHT2_5V", quantity="V")
<i>Double1d</i>	SCUCHTREF (description="SCUCHTREF", quantity="V")
<i>Double1d</i>	SCUCHTGND (description="SCUCHTGND", quantity="V")
<i>Double1d</i>	PCALCURR (description="PCALCURR", quantity="A")
<i>Double1d</i>	SCAL2CURR (description="SCAL2CURR", quantity="A")
<i>Double1d</i>	SCAL4CURR (description="SCAL4CURR", quantity="A")
<i>Double1d</i>	PSUTEMP2 (description="PSUTEMP2", quantity="K")
<i>String1d</i>	SUBKSTAT (description="SUBKSTAT", quantity="1")
<i>Double1d</i>	PUMPHRTEMP (description="PUMPHRTEMP", quantity="K")
<i>Double1d</i>	PUMPHSTEMP (description="PUMPHSTEMP", quantity="K")
<i>Double1d</i>	EVAPHSTEMP (description="EVAPHSTEMP", quantity="K")
<i>Double1d</i>	SHUNTTEMP (description="SHUNTTEMP", quantity="K")
<i>Double1d</i>	EMCFILTEMP (description="EMCFILTEMP", quantity="K")
<i>Double1d</i>	SL0TEMP (description="SL0TEMP", quantity="K")
<i>Double1d</i>	PL0TEMP (description="PL0TEMP", quantity="K")
<i>Double1d</i>	OPTTEMP (description="OPTTEMP", quantity="K")
<i>Double1d</i>	BAFTEMP (description="BAFTEMP", quantity="K")
<i>Double1d</i>	BSMIFTEMP (description="BSMIFTEMP", quantity="K")
<i>Double1d</i>	SCAL2TEMP (description="SCAL2TEMP", quantity="K")
<i>Double1d</i>	SCAL4TEMP (description="SCAL4TEMP", quantity="K")

<i>Double1d</i>	SCALTEMP (description="SCALTEMP", quantity="K")
<i>Double1d</i>	SMECIFTEMP (description="SMECIFTEMP", quantity="K")
<i>Double1d</i>	SMECTEMP (description="SMECTEMP", quantity="K")
<i>Double1d</i>	BSMTEMP (description="BSMTEMP", quantity="K")
<i>Double1d</i>	SUBKTEMP (description="SUBKTEMP", quantity="K")
<i>Double1d</i>	SCUTHTREF (description="SCUTHTREF", quantity="V")
<i>Double1d</i>	SCUTHTGND (description="SCUTHTGND", quantity="V")
<i>Int1d</i>	LOSTTCBLOCK (description="LOSTTCBLOCK", quantity="1")
<i>Int1d</i>	LOSTEVBLOCK (description="LOSTEVBLOCK", quantity="1")
<i>Int1d</i>	LOSTHKBLOCK (description="LOSTHKBLOCK", quantity="1")
<i>Int1d</i>	LOSTSDBLOCK (description="LOSTSDBLOCK", quantity="1")
<i>Int1d</i>	LOSTNTBLOCK (description="LOSTNTBLOCK", quantity="1")
<i>Int1d</i>	LS_HP_FIFOSTAT (description="LS_HP_FIFOSTAT", quantity="1")
<i>Int1d</i>	LS_LP_FIFOSTAT (description="LS_LP_FIFOSTAT", quantity="1")
<i>String1d</i>	MCUPCKT10STAT (description="MCUPCKT10STAT", quantity="1")
<i>String1d</i>	MCUPCKT12STAT (description="MCUPCKT12STAT", quantity="1")
<i>String1d</i>	MCUPCKT14STAT (description="MCUPCKT14STAT", quantity="1")
<i>String1d</i>	MCUPCKT15STAT (description="MCUPCKT15STAT", quantity="1")
<i>String1d</i>	MCURAMINTEGRITY (description="MCURAMINTEGRITY", quantity="1")
<i>String1d</i>	MCURAMTSTPROG (description="MCURAMTSTPROG", quantity="1")
<i>String1d</i>	MCURAMTSTDATA (description="MCURAMTSTDATA", quantity="1")
<i>String1d</i>	MCUPROM2RAMCOPY (description="MCUPROM2RAMCOPY", quantity="1")
<i>String1d</i>	MCUBOOTMODE (description="MCUBOOTMODE", quantity="1")
<i>Int1d</i>	SMECSELECTTAB (description="SMECSELECTTAB", quantity="1")
<i>Int1d</i>	CREC_STEP (description="CREC_STEP", quantity="1")
<i>Int1d</i>	PTC_STAGE (description="PTC_STAGE", quantity="1")
<i>Int1d</i>	SCAL_STAGE (description="SCAL_STAGE", quantity="1")
<i>Int1d</i>	JIGGLE_STEP (description="JIGGLE_STEP", quantity="1")
<i>Int1d</i>	LOSTRPBLOCK (description="LOSTRPBLOCK", quantity="1")
<i>Int1d</i>	LIAFAILCOUNT (description="LIAFAILCOUNT", quantity="1")
<i>Int1d</i>	SCANRES (description="SCANRES", quantity="1")
<i>Int1d</i>	VM_SMECSIG1OFF (description="VM_SMECSIG1OFF", quantity="1")
<i>Int1d</i>	VM_SMECSIG2OFF (description="VM_SMECSIG2OFF", quantity="1")
<i>Int1d</i>	TABLE7_09_LWORD (description="TABLE7_09_LWORD", quantity="1")
<i>String1d</i>	PTC_GET_COMMAND (description="PTC_GET_COMMAND", quantity="1")

<i>StringId</i>	SCAL_GET_COMMAND (description="SCAL_GET_COMMAND", quantity="1")
<i>LongId</i>	TABLE7_12 (description="TABLE7_12", quantity="1")
<i>StringId</i>	HK_MON_STATUS (description="HK_MON_STATUS", quantity="1")
<i>IntId</i>	CHOPJIGG_DCOUPLE (description="CHOPJIGG_DCOUPLE", quantity="1")
<i>IntId</i>	HK_02 (description="HK_02", quantity="1")
<i>IntId</i>	HK_03 (description="HK_03", quantity="1")
<i>IntId</i>	HK_04 (description="HK_04", quantity="1")
<i>IntId</i>	HK_05 (description="HK_05", quantity="1")
<i>IntId</i>	HK_06 (description="HK_06", quantity="1")
<i>IntId</i>	HK_07 (description="HK_07", quantity="1")
<i>IntId</i>	HK_08 (description="HK_08", quantity="1")
<i>IntId</i>	HK_09 (description="HK_09", quantity="1")
<i>IntId</i>	HK_10 (description="HK_10", quantity="1")
<i>IntId</i>	HK_11 (description="HK_11", quantity="1")
<i>IntId</i>	HK_12 (description="HK_12", quantity="1")
<i>IntId</i>	HK_13 (description="HK_13", quantity="1")
<i>IntId</i>	HK_14 (description="HK_14", quantity="1")
<i>IntId</i>	HK_15 (description="HK_15", quantity="1")
<i>IntId</i>	HK_16 (description="HK_16", quantity="1")
<i>IntId</i>	HK_17 (description="HK_17", quantity="1")
<i>IntId</i>	HK_18 (description="HK_18", quantity="1")
<i>IntId</i>	HK_19 (description="HK_19", quantity="1")
<i>IntId</i>	HK_20 (description="HK_20", quantity="1")
<i>IntId</i>	HK_21 (description="HK_21", quantity="1")
<i>IntId</i>	HK_22 (description="HK_22", quantity="1")
<i>IntId</i>	HK_23 (description="HK_23", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.22. SPIRE Product Level 0.5 - Critical House Keeping Timeline

<i>product</i> (type="CHKT", description="Critical House Keeping Timeline")	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")

StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	type (description="Product Type Identification", quantity="arcsec/year")
StringParameter	description (description="Name of this product", quantity="arcsec/year")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec/year")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec/year")

DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
Columns	
table dataset	(name="signal", description="Signal timelines")
Metadata	
Columns	
DoubleId	sampleTime (description="Sample time", quantity="TAI")
IntId	SID_C (description="SID_C", quantity="1")
LongId	OBSID_C (description="OBSID_C", quantity="1")
LongId	BBID_C (description="BBID_C", quantity="1")
StringId	MODE_C (description="MODE_C", quantity="1")
IntId	STEP_C (description="STEP_C", quantity="1")
IntId	TCRECV_C (description="TCRECV_C", quantity="1")
IntId	TCEXEC_C (description="TCEXEC_C", quantity="1")
StringId	MEMSTAT1_C (description="MEMSTAT1_C", quantity="1")
StringId	MEMSTAT2_C (description="MEMSTAT2_C", quantity="1")
StringId	MEMSTAT3_C (description="MEMSTAT3_C", quantity="1")
StringId	MONSTAT_C (description="MONSTAT_C", quantity="1")
StringId	SCUDCDCSTAT_C (description="SCUDCDCSTAT_C", quantity="1")
StringId	MCUIFSTAT_C (description="MCUIFSTAT_C", quantity="1")
StringId	SCUIFSTAT_C (description="SCUIFSTAT_C", quantity="1")
StringId	PSWJFETSTAT_C (description="PSWJFETSTAT_C", quantity="1")
StringId	PSW_VDD_JFET1_C (description="PSW_VDD_JFET1_C", quantity="1")
StringId	PSW_VDD_JFET2_C (description="PSW_VDD_JFET2_C", quantity="1")
StringId	PSW_VDD_JFET3_C (description="PSW_VDD_JFET3_C", quantity="1")
StringId	PSW_VDD_JFET4_C (description="PSW_VDD_JFET4_C", quantity="1")
StringId	PSW_VDD_JFET5_C (description="PSW_VDD_JFET5_C", quantity="1")
StringId	PSW_VDD_JFET6_C (description="PSW_VDD_JFET6_C", quantity="1")
StringId	PMLWJFETSTAT_C (description="PMLWJFETSTAT_C", quantity="1")
StringId	PMW_VDD_JFET1_C (description="PMW_VDD_JFET1_C", quantity="1")
StringId	PMW_VDD_JFET2_C (description="PMW_VDD_JFET2_C", quantity="1")
StringId	PMW_VDD_JFET3_C (description="PMW_VDD_JFET3_C", quantity="1")
StringId	PMW_VDD_JFET4_C (description="PMW_VDD_JFET4_C", quantity="1")

<i>StringId</i>	PLW_VDD_JFET1_C (description="PLW_VDD_JFET1_C", quantity="1")
<i>StringId</i>	PLW_VDD_JFET2_C (description="PLW_VDD_JFET2_C", quantity="1")
<i>StringId</i>	TC_VDD_JFET_C (description="TC_VDD_JFET_C", quantity="1")
<i>StringId</i>	SPECJFETSTAT_C (description="SPECJFETSTAT_C", quantity="1")
<i>StringId</i>	SLW_VDD_JFET1_C (description="SLW_VDD_JFET1_C", quantity="1")
<i>StringId</i>	SSW_VDD_JFET1_C (description="SSW_VDD_JFET1_C", quantity="1")
<i>StringId</i>	SSW_VDD_JFET2_C (description="SSW_VDD_JFET2_C", quantity="1")
<i>StringId</i>	LIASSTAT_C (description="LIASSTAT_C", quantity="1")
<i>StringId</i>	LIAP1STAT_C (description="LIAP1STAT_C", quantity="1")
<i>StringId</i>	LIAP2STAT_C (description="LIAP2STAT_C", quantity="1")
<i>StringId</i>	LIAP3STAT_C (description="LIAP3STAT_C", quantity="1")
<i>StringId</i>	LIAP4STAT_C (description="LIAP4STAT_C", quantity="1")
<i>StringId</i>	LIAP5STAT_C (description="LIAP5STAT_C", quantity="1")
<i>StringId</i>	LIAP6STAT_C (description="LIAP6STAT_C", quantity="1")
<i>StringId</i>	LIAP7STAT_C (description="LIAP7STAT_C", quantity="1")
<i>StringId</i>	LIAP8STAT_C (description="LIAP8STAT_C", quantity="1")
<i>StringId</i>	LIAP9STAT_C (description="LIAP9STAT_C", quantity="1")
<i>StringId</i>	LIAS1STAT_C (description="LIAS1STAT_C", quantity="1")
<i>StringId</i>	LIAS2STAT_C (description="LIAS2STAT_C", quantity="1")
<i>StringId</i>	LIAS3STAT_C (description="LIAS3STAT_C", quantity="1")
<i>StringId</i>	MCUERR_C (description="MCUERR_C", quantity="1")
<i>StringId</i>	SMECSTAT_C (description="SMECSTAT_C", quantity="1")
<i>StringId</i>	BSMSTAT_C (description="BSMSTAT_C", quantity="1")
<i>StringId</i>	SCUSTAT_C (description="SCUSTAT_C", quantity="1")
<i>DoubleId</i>	SUBKTEMP_C (description="SUBKTEMP_C", quantity="K")
<i>IntId</i>	OBSVER_C (description="OBSVER_C", quantity="1")
<i>ShortId</i>	OBSVER1_C (description="OBSVER1_C", quantity="1")
<i>ShortId</i>	OBSVER2_C (description="OBSVER2_C", quantity="1")
<i>StringId</i>	OBSVER3_C (description="OBSVER3_C", quantity="1")
<i>StringId</i>	CHK_VERS (description="CHK_VERS", quantity="1")
<i>StringId</i>	CHK_TYPE (description="CHK_TYPE", quantity="1")
<i>StringId</i>	CHK_DFHFLAG (description="CHK_DFHFLAG", quantity="1")
<i>ShortId</i>	CHK_APID (description="CHK_APID", quantity="1")
<i>StringId</i>	CHK_SEGFLAG (description="CHK_SEGFLAG", quantity="1")
<i>ShortId</i>	CHK_SSC (description="CHK_SSC", quantity="1")
<i>IntId</i>	CHK_PKTLEN (description="CHK_PKTLEN", quantity="1")
<i>StringId</i>	CHK_PUSVERS (description="CHK_PUSVERS", quantity="1")
<i>ShortId</i>	CHK_PKTTYPE (description="CHK_PKTTYPE", quantity="1")

<i>ShortId</i>	CHK_PKTSTYPE (description="CHK_PKTSTYPE", quantity="1")
<i>LongId</i>	CHK_PKTCTIME (description="CHK_PKTCTIME", quantity="1")
<i>IntId</i>	CHK_PKTFTIME (description="CHK_PKTFTIME", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.23. SPIRE Product Level 0.5 - Photometer Detector Timeline

<i>product (type="PDT", description="Photometer Detector Timeline")</i>	
<i>Metada- ta</i>	
StringParame- ter	telescope (description="Name of telescope")
StringParame- ter	instrument (description="Instrument attached to this product")
StringParame- ter	subsystem (description="Instrument Subsystem")
StringParame- ter	source (description="TM source packet name")
StringParame- ter	creator (description="Generator of this product")
StringParame- ter	object (description="Target name")
StringParame- ter	observer (description="Observer name")
StringParame- ter	proposal (description="Proposal name")
LongParame- ter	obsid (description="Observation identifier")
LongParame- ter	odNumber (description="Operational day number")
DateParame- ter	creationDate (description="Creation date of this product")
DateParame- ter	startDate (description="Start date of this product")
DateParame- ter	endDate (description="End date of this product")
StringParame- ter	aot (description="AOT Identifier")
StringParame- ter	aorLabel (description="AOR Label as entered in HSpot")

StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
DoubleParameter	biasFreq (description="Bias frequency", quantity="Hz")
StringParameter	elecSide (description="Electronic side", quantity="Hz")
StringParameter	modelName (description="Model name attached to this product", quantity="Hz")
StringParameter	formatVersion (description="Version of product format", quantity="Hz")
StringParameter	missionConfig (description="Mission configuration", quantity="Hz")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	type (description="Product Type Identification", quantity="arcsec/year")
StringParameter	description (description="Name of this product", quantity="arcsec/year")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")

LongParameter	bbid (description="Building Block Identifier", quantity="arcsec/year")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec/year")
StringParameter	signalTable (description="Name of the signal table", quantity="arcsec/year")
LongParameter	maskDead (description="Mask value for dead channel", quantity="arcsec/year")
LongParameter	maskMaster (description="Mask value for master bit", quantity="arcsec/year")
LongParameter	maskNoisy (description="Mask value for noisy channel", quantity="arcsec/year")
LongParameter	maskSlow (description="Mask value for slow channel", quantity="arcsec/year")
BooleanParameter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="arcsec/year")
DoubleParameter	ratioTruncatedPLW (description="Maximum ratio of out of range values to total number of values in PLW data.", quantity="arcsec/year")
DoubleParameter	ratioTruncatedPMW (description="Maximum ratio of out of range values to total number of values in PMW data.", quantity="arcsec/year")
DoubleParameter	ratioTruncatedPSW (description="Maximum ratio of out of range values to total number of values in PSW data.", quantity="arcsec/year")
DoubleParameter	ratioTruncatedPTC (description="Total fraction of out of range values for PTC", quantity="arcsec/year")
LongParameter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="arcsec/year")
LongParameter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="arcsec/year")
LongParameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="arcsec/year")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="arcsec/year")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="arcsec/year")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
BooleanParameter	rcRollApp (description="RC roll correction applied", quantity="ms/min")
DoubleParameter	subkTempDrift (description="Drift measured by the SubK temperature probe", quantity="K")
LongParameter	maskNotChoppedToSky (description="Mask value for channel not chopped to sky", quantity="K")
DoubleParameter	plwBiasAmpl (description="PLW bias amplitude", quantity="V")

DoubleParameter	pmwBiasAmpl (description="PMW bias amplitude", quantity="V")
DoubleParameter	pswBiasAmpl (description="PSW bias amplitude", quantity="V")
DoubleParameter	ptcBiasAmpl (description="PTC bias amplitude", quantity="V")
DoubleParameter	plwBiasPhase (description="PLW bias phase", quantity="rad")
DoubleParameter	pmwBiasPhase (description="PMW bias phase", quantity="rad")
DoubleParameter	pswBiasPhase (description="PSW bias phase", quantity="rad")
DoubleParameter	ptcBiasPhase (description="PTC bias phase", quantity="rad")
LongParameter	nodId (description="Nodding ID", quantity="rad")
LongParameter	numberBadVoltageOffsetPLW (description="Number of PLW bolometers with bad voltage offset resets", quantity="rad")
LongParameter	numberBadVoltageOffsetPMW (description="Number of PMW bolometers with bad voltage offset resets", quantity="rad")
LongParameter	numberBadVoltageOffsetPSW (description="Number of PSW bolometers with bad voltage offset resets", quantity="rad")
Columns	
table dataset	(name="voltage", description="Voltages table")
Metadata	
Columns	
DoubleId	sampleTime (description="Sample time", quantity="TAI")
FloatId	PSWR1 (description="PHOTFARRAY001", quantity="V")
FloatId	PSWD16 (description="PHOTFARRAY002", quantity="V")
FloatId	PSWT1 (description="PHOTFARRAY003", quantity="V")
FloatId	PSWB16 (description="PHOTFARRAY004", quantity="V")
FloatId	PSWC15 (description="PHOTFARRAY005", quantity="V")
FloatId	PSWA15 (description="PHOTFARRAY006", quantity="V")
FloatId	PSWD15 (description="PHOTFARRAY007", quantity="V")
FloatId	PSWB15 (description="PHOTFARRAY008", quantity="V")
FloatId	PSWC14 (description="PHOTFARRAY009", quantity="V")
FloatId	PSWD14 (description="PHOTFARRAY010", quantity="V")
FloatId	PSWA14 (description="PHOTFARRAY011", quantity="V")
FloatId	PSWA13 (description="PHOTFARRAY012", quantity="V")
FloatId	PSWB14 (description="PHOTFARRAY013", quantity="V")
FloatId	PSWC13 (description="PHOTFARRAY014", quantity="V")
FloatId	PSWB13 (description="PHOTFARRAY015", quantity="V")
FloatId	PSWD13 (description="PHOTFARRAY016", quantity="V")
FloatId	PSWA12 (description="PHOTFARRAY017", quantity="V")

<i>FloatId</i>	PSWC12 (description="PHOTFARRAY018", quantity="V")
<i>FloatId</i>	PSWD12 (description="PHOTFARRAY019", quantity="V")
<i>FloatId</i>	PSWB12 (description="PHOTFARRAY020", quantity="V")
<i>FloatId</i>	PSWE11 (description="PHOTFARRAY021", quantity="V")
<i>FloatId</i>	PSWA11 (description="PHOTFARRAY022", quantity="V")
<i>FloatId</i>	PSWC11 (description="PHOTFARRAY023", quantity="V")
<i>FloatId</i>	PSWB11 (description="PHOTFARRAY024", quantity="V")
<i>FloatId</i>	PSWE1 (description="PHOTFARRAY025", quantity="V")
<i>FloatId</i>	PSWF1 (description="PHOTFARRAY026", quantity="V")
<i>FloatId</i>	PSWT2 (description="PHOTFARRAY027", quantity="V")
<i>FloatId</i>	PSWH1 (description="PHOTFARRAY028", quantity="V")
<i>FloatId</i>	PSWG1 (description="PHOTFARRAY029", quantity="V")
<i>FloatId</i>	PSWJ1 (description="PHOTFARRAY030", quantity="V")
<i>FloatId</i>	PSWH2 (description="PHOTFARRAY031", quantity="V")
<i>FloatId</i>	PSWF2 (description="PHOTFARRAY032", quantity="V")
<i>FloatId</i>	PSWJ2 (description="PHOTFARRAY033", quantity="V")
<i>FloatId</i>	PSWG2 (description="PHOTFARRAY034", quantity="V")
<i>FloatId</i>	PSWH3 (description="PHOTFARRAY035", quantity="V")
<i>FloatId</i>	PSWJ3 (description="PHOTFARRAY036", quantity="V")
<i>FloatId</i>	PSWE2 (description="PHOTFARRAY037", quantity="V")
<i>FloatId</i>	PSWF3 (description="PHOTFARRAY038", quantity="V")
<i>FloatId</i>	PSWG3 (description="PHOTFARRAY039", quantity="V")
<i>FloatId</i>	PSWH4 (description="PHOTFARRAY040", quantity="V")
<i>FloatId</i>	PSWJ4 (description="PHOTFARRAY041", quantity="V")
<i>FloatId</i>	PSWE3 (description="PHOTFARRAY042", quantity="V")
<i>FloatId</i>	PSWF4 (description="PHOTFARRAY043", quantity="V")
<i>FloatId</i>	PSWG4 (description="PHOTFARRAY044", quantity="V")
<i>FloatId</i>	PSWH5 (description="PHOTFARRAY045", quantity="V")
<i>FloatId</i>	PSWE4 (description="PHOTFARRAY046", quantity="V")
<i>FloatId</i>	PSWJ5 (description="PHOTFARRAY047", quantity="V")
<i>FloatId</i>	PSWF5 (description="PHOTFARRAY048", quantity="V")
<i>FloatId</i>	PSWD6 (description="PHOTFARRAY049", quantity="V")
<i>FloatId</i>	PSWB6 (description="PHOTFARRAY050", quantity="V")
<i>FloatId</i>	PSWC5 (description="PHOTFARRAY051", quantity="V")
<i>FloatId</i>	PSWA5 (description="PHOTFARRAY052", quantity="V")
<i>FloatId</i>	PSWE5 (description="PHOTFARRAY053", quantity="V")
<i>FloatId</i>	PSWB5 (description="PHOTFARRAY054", quantity="V")
<i>FloatId</i>	PSWD5 (description="PHOTFARRAY055", quantity="V")
<i>FloatId</i>	PSWC4 (description="PHOTFARRAY056", quantity="V")
<i>FloatId</i>	PSWA4 (description="PHOTFARRAY057", quantity="V")
<i>FloatId</i>	PSWD4 (description="PHOTFARRAY058", quantity="V")
<i>FloatId</i>	PSWB4 (description="PHOTFARRAY059", quantity="V")

<i>FloatId</i>	PSWC3 (description="PHOTFARRAY060", quantity="V")
<i>FloatId</i>	PSWB3 (description="PHOTFARRAY061", quantity="V")
<i>FloatId</i>	PSWA3 (description="PHOTFARRAY062", quantity="V")
<i>FloatId</i>	PSWA2 (description="PHOTFARRAY063", quantity="V")
<i>FloatId</i>	PSWD3 (description="PHOTFARRAY064", quantity="V")
<i>FloatId</i>	PSWC2 (description="PHOTFARRAY065", quantity="V")
<i>FloatId</i>	PSWB2 (description="PHOTFARRAY066", quantity="V")
<i>FloatId</i>	PSWD2 (description="PHOTFARRAY067", quantity="V")
<i>FloatId</i>	PSWA1 (description="PHOTFARRAY068", quantity="V")
<i>FloatId</i>	PSWC1 (description="PHOTFARRAY069", quantity="V")
<i>FloatId</i>	PSWB1 (description="PHOTFARRAY070", quantity="V")
<i>FloatId</i>	PSWDP1 (description="PHOTFARRAY071", quantity="V")
<i>FloatId</i>	PSWD1 (description="PHOTFARRAY072", quantity="V")
<i>FloatId</i>	PSWF12 (description="PHOTFARRAY073", quantity="V")
<i>FloatId</i>	PSWJ11 (description="PHOTFARRAY074", quantity="V")
<i>FloatId</i>	PSWE12 (description="PHOTFARRAY075", quantity="V")
<i>FloatId</i>	PSWH12 (description="PHOTFARRAY076", quantity="V")
<i>FloatId</i>	PSWG12 (description="PHOTFARRAY077", quantity="V")
<i>FloatId</i>	PSWF13 (description="PHOTFARRAY078", quantity="V")
<i>FloatId</i>	PSWE13 (description="PHOTFARRAY079", quantity="V")
<i>FloatId</i>	PSWJ12 (description="PHOTFARRAY080", quantity="V")
<i>FloatId</i>	PSWH13 (description="PHOTFARRAY081", quantity="V")
<i>FloatId</i>	PSWG13 (description="PHOTFARRAY082", quantity="V")
<i>FloatId</i>	PSWF14 (description="PHOTFARRAY083", quantity="V")
<i>FloatId</i>	PSWE14 (description="PHOTFARRAY084", quantity="V")
<i>FloatId</i>	PSWJ13 (description="PHOTFARRAY085", quantity="V")
<i>FloatId</i>	PSWH14 (description="PHOTFARRAY086", quantity="V")
<i>FloatId</i>	PSWG14 (description="PHOTFARRAY087", quantity="V")
<i>FloatId</i>	PSWJ14 (description="PHOTFARRAY088", quantity="V")
<i>FloatId</i>	PSWF15 (description="PHOTFARRAY089", quantity="V")
<i>FloatId</i>	PSWH15 (description="PHOTFARRAY090", quantity="V")
<i>FloatId</i>	PSWJ15 (description="PHOTFARRAY091", quantity="V")
<i>FloatId</i>	PSWG15 (description="PHOTFARRAY092", quantity="V")
<i>FloatId</i>	PSWH16 (description="PHOTFARRAY093", quantity="V")
<i>FloatId</i>	PSWDP2 (description="PHOTFARRAY094", quantity="V")
<i>FloatId</i>	PSWF16 (description="PHOTFARRAY095", quantity="V")
<i>FloatId</i>	PSWE15 (description="PHOTFARRAY096", quantity="V")
<i>FloatId</i>	PSWD11 (description="PHOTFARRAY097", quantity="V")
<i>FloatId</i>	PSWA10 (description="PHOTFARRAY098", quantity="V")
<i>FloatId</i>	PSWE10 (description="PHOTFARRAY099", quantity="V")
<i>FloatId</i>	PSWC10 (description="PHOTFARRAY100", quantity="V")
<i>FloatId</i>	PSWB10 (description="PHOTFARRAY101", quantity="V")

<i>FloatId</i>	PSWD10 (description="PHOTFARRAY102", quantity="V")
<i>FloatId</i>	PSWA9 (description="PHOTFARRAY103", quantity="V")
<i>FloatId</i>	PSWE9 (description="PHOTFARRAY104", quantity="V")
<i>FloatId</i>	PSWC9 (description="PHOTFARRAY105", quantity="V")
<i>FloatId</i>	PSWB9 (description="PHOTFARRAY106", quantity="V")
<i>FloatId</i>	PSWD9 (description="PHOTFARRAY107", quantity="V")
<i>FloatId</i>	PSWA8 (description="PHOTFARRAY108", quantity="V")
<i>FloatId</i>	PSWC8 (description="PHOTFARRAY109", quantity="V")
<i>FloatId</i>	PSWE8 (description="PHOTFARRAY110", quantity="V")
<i>FloatId</i>	PSWD8 (description="PHOTFARRAY111", quantity="V")
<i>FloatId</i>	PSWB8 (description="PHOTFARRAY112", quantity="V")
<i>FloatId</i>	PSWC7 (description="PHOTFARRAY113", quantity="V")
<i>FloatId</i>	PSWE7 (description="PHOTFARRAY114", quantity="V")
<i>FloatId</i>	PSWA7 (description="PHOTFARRAY115", quantity="V")
<i>FloatId</i>	PSWD7 (description="PHOTFARRAY116", quantity="V")
<i>FloatId</i>	PSWB7 (description="PHOTFARRAY117", quantity="V")
<i>FloatId</i>	PSWC6 (description="PHOTFARRAY118", quantity="V")
<i>FloatId</i>	PSWE6 (description="PHOTFARRAY119", quantity="V")
<i>FloatId</i>	PSWA6 (description="PHOTFARRAY120", quantity="V")
<i>FloatId</i>	PSWG5 (description="PHOTFARRAY121", quantity="V")
<i>FloatId</i>	PSWH6 (description="PHOTFARRAY122", quantity="V")
<i>FloatId</i>	PSWJ6 (description="PHOTFARRAY123", quantity="V")
<i>FloatId</i>	PSWF6 (description="PHOTFARRAY124", quantity="V")
<i>FloatId</i>	PSWG6 (description="PHOTFARRAY125", quantity="V")
<i>FloatId</i>	PSWH7 (description="PHOTFARRAY126", quantity="V")
<i>FloatId</i>	PSWF7 (description="PHOTFARRAY127", quantity="V")
<i>FloatId</i>	PSWJ7 (description="PHOTFARRAY128", quantity="V")
<i>FloatId</i>	PSWG7 (description="PHOTFARRAY129", quantity="V")
<i>FloatId</i>	PSWH8 (description="PHOTFARRAY130", quantity="V")
<i>FloatId</i>	PSWF8 (description="PHOTFARRAY131", quantity="V")
<i>FloatId</i>	PSWG8 (description="PHOTFARRAY132", quantity="V")
<i>FloatId</i>	PSWJ8 (description="PHOTFARRAY133", quantity="V")
<i>FloatId</i>	PSWF9 (description="PHOTFARRAY134", quantity="V")
<i>FloatId</i>	PSWH9 (description="PHOTFARRAY135", quantity="V")
<i>FloatId</i>	PSWG9 (description="PHOTFARRAY136", quantity="V")
<i>FloatId</i>	PSWJ9 (description="PHOTFARRAY137", quantity="V")
<i>FloatId</i>	PSWF10 (description="PHOTFARRAY138", quantity="V")
<i>FloatId</i>	PSWH10 (description="PHOTFARRAY139", quantity="V")
<i>FloatId</i>	PSWG10 (description="PHOTFARRAY140", quantity="V")
<i>FloatId</i>	PSWF11 (description="PHOTFARRAY141", quantity="V")
<i>FloatId</i>	PSWJ10 (description="PHOTFARRAY142", quantity="V")
<i>FloatId</i>	PSWH11 (description="PHOTFARRAY143", quantity="V")

<i>FloatId</i>	PSWG11 (description="PHOTFARRAY144", quantity="V")
<i>FloatId</i>	PLWR1 (description="PHOTFARRAY145", quantity="V")
<i>FloatId</i>	PLWA8 (description="PHOTFARRAY146", quantity="V")
<i>FloatId</i>	PLWA7 (description="PHOTFARRAY147", quantity="V")
<i>FloatId</i>	PLWA6 (description="PHOTFARRAY148", quantity="V")
<i>FloatId</i>	PLWA9 (description="PHOTFARRAY149", quantity="V")
<i>FloatId</i>	PLWC9 (description="PHOTFARRAY150", quantity="V")
<i>FloatId</i>	PLWB8 (description="PHOTFARRAY151", quantity="V")
<i>FloatId</i>	PLWB7 (description="PHOTFARRAY152", quantity="V")
<i>FloatId</i>	PLWC7 (description="PHOTFARRAY153", quantity="V")
<i>FloatId</i>	PLWB5 (description="PHOTFARRAY154", quantity="V")
<i>FloatId</i>	PLWB6 (description="PHOTFARRAY155", quantity="V")
<i>FloatId</i>	PLWA5 (description="PHOTFARRAY156", quantity="V")
<i>FloatId</i>	PLWT1 (description="PHOTFARRAY157", quantity="V")
<i>FloatId</i>	PLWB4 (description="PHOTFARRAY158", quantity="V")
<i>FloatId</i>	PLWC4 (description="PHOTFARRAY159", quantity="V")
<i>FloatId</i>	PLWB3 (description="PHOTFARRAY160", quantity="V")
<i>FloatId</i>	PLWC2 (description="PHOTFARRAY161", quantity="V")
<i>FloatId</i>	PLWB2 (description="PHOTFARRAY162", quantity="V")
<i>FloatId</i>	PLWB1 (description="PHOTFARRAY163", quantity="V")
<i>FloatId</i>	PLWA3 (description="PHOTFARRAY164", quantity="V")
<i>FloatId</i>	PLWA4 (description="PHOTFARRAY165", quantity="V")
<i>FloatId</i>	PLWA1 (description="PHOTFARRAY166", quantity="V")
<i>FloatId</i>	PLWDP1 (description="PHOTFARRAY167", quantity="V")
<i>FloatId</i>	PLWA2 (description="PHOTFARRAY168", quantity="V")
<i>FloatId</i>	PLWE1 (description="PHOTFARRAY169", quantity="V")
<i>FloatId</i>	PLWE2 (description="PHOTFARRAY170", quantity="V")
<i>FloatId</i>	PLWE3 (description="PHOTFARRAY171", quantity="V")
<i>FloatId</i>	PLWE4 (description="PHOTFARRAY172", quantity="V")
<i>FloatId</i>	PLWD1 (description="PHOTFARRAY173", quantity="V")
<i>FloatId</i>	PLWD2 (description="PHOTFARRAY174", quantity="V")
<i>FloatId</i>	PLWD3 (description="PHOTFARRAY175", quantity="V")
<i>FloatId</i>	PLWD4 (description="PHOTFARRAY176", quantity="V")
<i>FloatId</i>	PLWC1 (description="PHOTFARRAY177", quantity="V")
<i>FloatId</i>	PLWC3 (description="PHOTFARRAY178", quantity="V")
<i>FloatId</i>	PLWC5 (description="PHOTFARRAY179", quantity="V")
<i>FloatId</i>	PLWT2 (description="PHOTFARRAY180", quantity="V")
<i>FloatId</i>	PLWE5 (description="PHOTFARRAY181", quantity="V")
<i>FloatId</i>	PLWC6 (description="PHOTFARRAY182", quantity="V")
<i>FloatId</i>	PLWC8 (description="PHOTFARRAY183", quantity="V")
<i>FloatId</i>	PLWD5 (description="PHOTFARRAY184", quantity="V")
<i>FloatId</i>	PLWD6 (description="PHOTFARRAY185", quantity="V")

<i>FloatId</i>	PLWD7 (description="PHOTFARRAY186", quantity="V")
<i>FloatId</i>	PLWD8 (description="PHOTFARRAY187", quantity="V")
<i>FloatId</i>	PLWE7 (description="PHOTFARRAY188", quantity="V")
<i>FloatId</i>	PLWE6 (description="PHOTFARRAY189", quantity="V")
<i>FloatId</i>	PLWE8 (description="PHOTFARRAY190", quantity="V")
<i>FloatId</i>	PLWDP2 (description="PHOTFARRAY191", quantity="V")
<i>FloatId</i>	PLWE9 (description="PHOTFARRAY192", quantity="V")
<i>FloatId</i>	PMWA13 (description="PHOTFARRAY193", quantity="V")
<i>FloatId</i>	PMWT1 (description="PHOTFARRAY194", quantity="V")
<i>FloatId</i>	PMWB12 (description="PHOTFARRAY195", quantity="V")
<i>FloatId</i>	PMWC13 (description="PHOTFARRAY196", quantity="V")
<i>FloatId</i>	PMWA12 (description="PHOTFARRAY197", quantity="V")
<i>FloatId</i>	PMWD12 (description="PHOTFARRAY198", quantity="V")
<i>FloatId</i>	PMWC12 (description="PHOTFARRAY199", quantity="V")
<i>FloatId</i>	PMWB11 (description="PHOTFARRAY200", quantity="V")
<i>FloatId</i>	PMWA11 (description="PHOTFARRAY201", quantity="V")
<i>FloatId</i>	PMWE13 (description="PHOTFARRAY202", quantity="V")
<i>FloatId</i>	PMWD11 (description="PHOTFARRAY203", quantity="V")
<i>FloatId</i>	PMWC11 (description="PHOTFARRAY204", quantity="V")
<i>FloatId</i>	PMWB10 (description="PHOTFARRAY205", quantity="V")
<i>FloatId</i>	PMWA10 (description="PHOTFARRAY206", quantity="V")
<i>FloatId</i>	PMWD10 (description="PHOTFARRAY207", quantity="V")
<i>FloatId</i>	PMWB9 (description="PHOTFARRAY208", quantity="V")
<i>FloatId</i>	PMWC10 (description="PHOTFARRAY209", quantity="V")
<i>FloatId</i>	PMWC9 (description="PHOTFARRAY210", quantity="V")
<i>FloatId</i>	PMWA9 (description="PHOTFARRAY211", quantity="V")
<i>FloatId</i>	PMWB8 (description="PHOTFARRAY212", quantity="V")
<i>FloatId</i>	PMWA8 (description="PHOTFARRAY213", quantity="V")
<i>FloatId</i>	PMWD8 (description="PHOTFARRAY214", quantity="V")
<i>FloatId</i>	PMWC8 (description="PHOTFARRAY215", quantity="V")
<i>FloatId</i>	PMWB7 (description="PHOTFARRAY216", quantity="V")
<i>FloatId</i>	PMWR1 (description="PHOTFARRAY217", quantity="V")
<i>FloatId</i>	PMWG1 (description="PHOTFARRAY218", quantity="V")
<i>FloatId</i>	PMWT2 (description="PHOTFARRAY219", quantity="V")
<i>FloatId</i>	PMWE1 (description="PHOTFARRAY220", quantity="V")
<i>FloatId</i>	PMWD1 (description="PHOTFARRAY221", quantity="V")
<i>FloatId</i>	PMWF1 (description="PHOTFARRAY222", quantity="V")
<i>FloatId</i>	PMWE2 (description="PHOTFARRAY223", quantity="V")
<i>FloatId</i>	PMWG2 (description="PHOTFARRAY224", quantity="V")
<i>FloatId</i>	PMWF2 (description="PHOTFARRAY225", quantity="V")
<i>FloatId</i>	PMWG3 (description="PHOTFARRAY226", quantity="V")
<i>FloatId</i>	PMWE3 (description="PHOTFARRAY227", quantity="V")

<i>Float1d</i>	PMWD3 (description="PHOTFARRAY228", quantity="V")
<i>Float1d</i>	PMWF3 (description="PHOTFARRAY229", quantity="V")
<i>Float1d</i>	PMWG4 (description="PHOTFARRAY230", quantity="V")
<i>Float1d</i>	PMWE4 (description="PHOTFARRAY231", quantity="V")
<i>Float1d</i>	PMWF4 (description="PHOTFARRAY232", quantity="V")
<i>Float1d</i>	PMWE5 (description="PHOTFARRAY233", quantity="V")
<i>Float1d</i>	PMWD5 (description="PHOTFARRAY234", quantity="V")
<i>Float1d</i>	PMWF5 (description="PHOTFARRAY235", quantity="V")
<i>Float1d</i>	PMWG5 (description="PHOTFARRAY236", quantity="V")
<i>Float1d</i>	PMWE6 (description="PHOTFARRAY237", quantity="V")
<i>Float1d</i>	PMWG6 (description="PHOTFARRAY238", quantity="V")
<i>Float1d</i>	PMWF6 (description="PHOTFARRAY239", quantity="V")
<i>Float1d</i>	PMWG7 (description="PHOTFARRAY240", quantity="V")
<i>Float1d</i>	PMWF10 (description="PHOTFARRAY241", quantity="V")
<i>Float1d</i>	PMWE11 (description="PHOTFARRAY242", quantity="V")
<i>Float1d</i>	PMWG11 (description="PHOTFARRAY243", quantity="V")
<i>Float1d</i>	PMWF11 (description="PHOTFARRAY244", quantity="V")
<i>Float1d</i>	PMWE12 (description="PHOTFARRAY245", quantity="V")
<i>Float1d</i>	PMWG12 (description="PHOTFARRAY246", quantity="V")
<i>Float1d</i>	PMWF12 (description="PHOTFARRAY247", quantity="V")
<i>Float1d</i>	PMWG13 (description="PHOTFARRAY248", quantity="V")
<i>Float1d</i>	PMWDP2 (description="PHOTFARRAY249", quantity="V")
<i>Float1d</i>	PMWE7 (description="PHOTFARRAY250", quantity="V")
<i>Float1d</i>	PMWD7 (description="PHOTFARRAY251", quantity="V")
<i>Float1d</i>	PMWF7 (description="PHOTFARRAY252", quantity="V")
<i>Float1d</i>	PMWE8 (description="PHOTFARRAY253", quantity="V")
<i>Float1d</i>	PMWG8 (description="PHOTFARRAY254", quantity="V")
<i>Float1d</i>	PMWF8 (description="PHOTFARRAY255", quantity="V")
<i>Float1d</i>	PMWE9 (description="PHOTFARRAY256", quantity="V")
<i>Float1d</i>	PMWG9 (description="PHOTFARRAY257", quantity="V")
<i>Float1d</i>	PMWD9 (description="PHOTFARRAY258", quantity="V")
<i>Float1d</i>	PMWF9 (description="PHOTFARRAY259", quantity="V")
<i>Float1d</i>	PMWE10 (description="PHOTFARRAY260", quantity="V")
<i>Float1d</i>	PMWG10 (description="PHOTFARRAY261", quantity="V")
<i>Float1d</i>	PMWC4 (description="PHOTFARRAY262", quantity="V")
<i>Float1d</i>	PMWB3 (description="PHOTFARRAY263", quantity="V")
<i>Float1d</i>	PMWC3 (description="PHOTFARRAY264", quantity="V")
<i>Float1d</i>	PMWB2 (description="PHOTFARRAY265", quantity="V")
<i>Float1d</i>	PMWD2 (description="PHOTFARRAY266", quantity="V")
<i>Float1d</i>	PMWA3 (description="PHOTFARRAY267", quantity="V")
<i>Float1d</i>	PMWA2 (description="PHOTFARRAY268", quantity="V")
<i>Float1d</i>	PMWC2 (description="PHOTFARRAY269", quantity="V")

<i>FloatId</i>	PMWB1 (description="PHOTFARRAY270", quantity="V")
<i>FloatId</i>	PMWA1 (description="PHOTFARRAY271", quantity="V")
<i>FloatId</i>	PMWDP1 (description="PHOTFARRAY272", quantity="V")
<i>FloatId</i>	PMWC1 (description="PHOTFARRAY273", quantity="V")
<i>FloatId</i>	PMWA7 (description="PHOTFARRAY274", quantity="V")
<i>FloatId</i>	PMWA6 (description="PHOTFARRAY275", quantity="V")
<i>FloatId</i>	PMWB6 (description="PHOTFARRAY276", quantity="V")
<i>FloatId</i>	PMWC7 (description="PHOTFARRAY277", quantity="V")
<i>FloatId</i>	PMWA5 (description="PHOTFARRAY278", quantity="V")
<i>FloatId</i>	PMWB5 (description="PHOTFARRAY279", quantity="V")
<i>FloatId</i>	PMWC6 (description="PHOTFARRAY280", quantity="V")
<i>FloatId</i>	PMWD6 (description="PHOTFARRAY281", quantity="V")
<i>FloatId</i>	PMWB4 (description="PHOTFARRAY282", quantity="V")
<i>FloatId</i>	PMWC5 (description="PHOTFARRAY283", quantity="V")
<i>FloatId</i>	PMWD4 (description="PHOTFARRAY284", quantity="V")
<i>FloatId</i>	PMWA4 (description="PHOTFARRAY285", quantity="V")
<i>FloatId</i>	PTCP1 (description="PHOTFARRAY286", quantity="V")
<i>FloatId</i>	PTCP2 (description="PHOTFARRAY287", quantity="V")
<i>FloatId</i>	PTCP3 (description="PHOTFARRAY288", quantity="V")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="resistance", description="Resistances table")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="quality", description="Quality control metric quantities")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="temperature", description="Temperature")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.24. SPIRE Product Level 0.5 - Photometer Offset Timeline

<i>product (type="POT", description="Photometer Offset Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")

StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	type (description="Product Type Identification", quantity="arcsec/year")
StringParameter	description (description="Name of this product", quantity="arcsec/year")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec/year")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec/year")
LongParameter	maskMaster (description="Mask value for master bit", quantity="arcsec/year")

DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="arcsec/year")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="arcsec/year")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
<i>Columns</i>	
<i>table dataset</i>	(name="signal", description="Signal timelines")
<i>Metadata</i>	
<i>Columns</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>IntId</i>	PSWR1 (description="PHOTOFF001", quantity="1")
<i>IntId</i>	PSWD16 (description="PHOTOFF002", quantity="1")
<i>IntId</i>	PSWT1 (description="PHOTOFF003", quantity="1")
<i>IntId</i>	PSWB16 (description="PHOTOFF004", quantity="1")
<i>IntId</i>	PSWC15 (description="PHOTOFF005", quantity="1")
<i>IntId</i>	PSWA15 (description="PHOTOFF006", quantity="1")
<i>IntId</i>	PSWD15 (description="PHOTOFF007", quantity="1")
<i>IntId</i>	PSWB15 (description="PHOTOFF008", quantity="1")
<i>IntId</i>	PSWC14 (description="PHOTOFF009", quantity="1")
<i>IntId</i>	PSWD14 (description="PHOTOFF010", quantity="1")
<i>IntId</i>	PSWA14 (description="PHOTOFF011", quantity="1")
<i>IntId</i>	PSWA13 (description="PHOTOFF012", quantity="1")
<i>IntId</i>	PSWB14 (description="PHOTOFF013", quantity="1")
<i>IntId</i>	PSWC13 (description="PHOTOFF014", quantity="1")
<i>IntId</i>	PSWB13 (description="PHOTOFF015", quantity="1")
<i>IntId</i>	PSWD13 (description="PHOTOFF016", quantity="1")
<i>IntId</i>	PSWA12 (description="PHOTOFF017", quantity="1")
<i>IntId</i>	PSWC12 (description="PHOTOFF018", quantity="1")
<i>IntId</i>	PSWD12 (description="PHOTOFF019", quantity="1")
<i>IntId</i>	PSWB12 (description="PHOTOFF020", quantity="1")
<i>IntId</i>	PSWE11 (description="PHOTOFF021", quantity="1")
<i>IntId</i>	PSWA11 (description="PHOTOFF022", quantity="1")
<i>IntId</i>	PSWC11 (description="PHOTOFF023", quantity="1")
<i>IntId</i>	PSWB11 (description="PHOTOFF024", quantity="1")
<i>IntId</i>	PSWE1 (description="PHOTOFF025", quantity="1")
<i>IntId</i>	PSWF1 (description="PHOTOFF026", quantity="1")
<i>IntId</i>	PSWT2 (description="PHOTOFF027", quantity="1")
<i>IntId</i>	PSWH1 (description="PHOTOFF028", quantity="1")
<i>IntId</i>	PSWG1 (description="PHOTOFF029", quantity="1")

<i>Int1d</i>	PSWJ1 (description="PHOTOFF030", quantity="1")
<i>Int1d</i>	PSWH2 (description="PHOTOFF031", quantity="1")
<i>Int1d</i>	PSWF2 (description="PHOTOFF032", quantity="1")
<i>Int1d</i>	PSWJ2 (description="PHOTOFF033", quantity="1")
<i>Int1d</i>	PSWG2 (description="PHOTOFF034", quantity="1")
<i>Int1d</i>	PSWH3 (description="PHOTOFF035", quantity="1")
<i>Int1d</i>	PSWJ3 (description="PHOTOFF036", quantity="1")
<i>Int1d</i>	PSWE2 (description="PHOTOFF037", quantity="1")
<i>Int1d</i>	PSWF3 (description="PHOTOFF038", quantity="1")
<i>Int1d</i>	PSWG3 (description="PHOTOFF039", quantity="1")
<i>Int1d</i>	PSWH4 (description="PHOTOFF040", quantity="1")
<i>Int1d</i>	PSWJ4 (description="PHOTOFF041", quantity="1")
<i>Int1d</i>	PSWE3 (description="PHOTOFF042", quantity="1")
<i>Int1d</i>	PSWF4 (description="PHOTOFF043", quantity="1")
<i>Int1d</i>	PSWG4 (description="PHOTOFF044", quantity="1")
<i>Int1d</i>	PSWH5 (description="PHOTOFF045", quantity="1")
<i>Int1d</i>	PSWE4 (description="PHOTOFF046", quantity="1")
<i>Int1d</i>	PSWJ5 (description="PHOTOFF047", quantity="1")
<i>Int1d</i>	PSWF5 (description="PHOTOFF048", quantity="1")
<i>Int1d</i>	PSWD6 (description="PHOTOFF049", quantity="1")
<i>Int1d</i>	PSWB6 (description="PHOTOFF050", quantity="1")
<i>Int1d</i>	PSWC5 (description="PHOTOFF051", quantity="1")
<i>Int1d</i>	PSWA5 (description="PHOTOFF052", quantity="1")
<i>Int1d</i>	PSWE5 (description="PHOTOFF053", quantity="1")
<i>Int1d</i>	PSWB5 (description="PHOTOFF054", quantity="1")
<i>Int1d</i>	PSWD5 (description="PHOTOFF055", quantity="1")
<i>Int1d</i>	PSWC4 (description="PHOTOFF056", quantity="1")
<i>Int1d</i>	PSWA4 (description="PHOTOFF057", quantity="1")
<i>Int1d</i>	PSWD4 (description="PHOTOFF058", quantity="1")
<i>Int1d</i>	PSWB4 (description="PHOTOFF059", quantity="1")
<i>Int1d</i>	PSWC3 (description="PHOTOFF060", quantity="1")
<i>Int1d</i>	PSWB3 (description="PHOTOFF061", quantity="1")
<i>Int1d</i>	PSWA3 (description="PHOTOFF062", quantity="1")
<i>Int1d</i>	PSWA2 (description="PHOTOFF063", quantity="1")
<i>Int1d</i>	PSWD3 (description="PHOTOFF064", quantity="1")
<i>Int1d</i>	PSWC2 (description="PHOTOFF065", quantity="1")
<i>Int1d</i>	PSWB2 (description="PHOTOFF066", quantity="1")
<i>Int1d</i>	PSWD2 (description="PHOTOFF067", quantity="1")
<i>Int1d</i>	PSWA1 (description="PHOTOFF068", quantity="1")
<i>Int1d</i>	PSWC1 (description="PHOTOFF069", quantity="1")
<i>Int1d</i>	PSWB1 (description="PHOTOFF070", quantity="1")
<i>Int1d</i>	PSWDP1 (description="PHOTOFF071", quantity="1")

<i>Int1d</i>	PSWD1 (description="PHOTOFF072", quantity="1")
<i>Int1d</i>	PSWF12 (description="PHOTOFF073", quantity="1")
<i>Int1d</i>	PSWJ11 (description="PHOTOFF074", quantity="1")
<i>Int1d</i>	PSWE12 (description="PHOTOFF075", quantity="1")
<i>Int1d</i>	PSWH12 (description="PHOTOFF076", quantity="1")
<i>Int1d</i>	PSWG12 (description="PHOTOFF077", quantity="1")
<i>Int1d</i>	PSWF13 (description="PHOTOFF078", quantity="1")
<i>Int1d</i>	PSWE13 (description="PHOTOFF079", quantity="1")
<i>Int1d</i>	PSWJ12 (description="PHOTOFF080", quantity="1")
<i>Int1d</i>	PSWH13 (description="PHOTOFF081", quantity="1")
<i>Int1d</i>	PSWG13 (description="PHOTOFF082", quantity="1")
<i>Int1d</i>	PSWF14 (description="PHOTOFF083", quantity="1")
<i>Int1d</i>	PSWE14 (description="PHOTOFF084", quantity="1")
<i>Int1d</i>	PSWJ13 (description="PHOTOFF085", quantity="1")
<i>Int1d</i>	PSWH14 (description="PHOTOFF086", quantity="1")
<i>Int1d</i>	PSWG14 (description="PHOTOFF087", quantity="1")
<i>Int1d</i>	PSWJ14 (description="PHOTOFF088", quantity="1")
<i>Int1d</i>	PSWF15 (description="PHOTOFF089", quantity="1")
<i>Int1d</i>	PSWH15 (description="PHOTOFF090", quantity="1")
<i>Int1d</i>	PSWJ15 (description="PHOTOFF091", quantity="1")
<i>Int1d</i>	PSWG15 (description="PHOTOFF092", quantity="1")
<i>Int1d</i>	PSWH16 (description="PHOTOFF093", quantity="1")
<i>Int1d</i>	PSWDP2 (description="PHOTOFF094", quantity="1")
<i>Int1d</i>	PSWF16 (description="PHOTOFF095", quantity="1")
<i>Int1d</i>	PSWE15 (description="PHOTOFF096", quantity="1")
<i>Int1d</i>	PSWD11 (description="PHOTOFF097", quantity="1")
<i>Int1d</i>	PSWA10 (description="PHOTOFF098", quantity="1")
<i>Int1d</i>	PSWE10 (description="PHOTOFF099", quantity="1")
<i>Int1d</i>	PSWC10 (description="PHOTOFF100", quantity="1")
<i>Int1d</i>	PSWB10 (description="PHOTOFF101", quantity="1")
<i>Int1d</i>	PSWD10 (description="PHOTOFF102", quantity="1")
<i>Int1d</i>	PSWA9 (description="PHOTOFF103", quantity="1")
<i>Int1d</i>	PSWE9 (description="PHOTOFF104", quantity="1")
<i>Int1d</i>	PSWC9 (description="PHOTOFF105", quantity="1")
<i>Int1d</i>	PSWB9 (description="PHOTOFF106", quantity="1")
<i>Int1d</i>	PSWD9 (description="PHOTOFF107", quantity="1")
<i>Int1d</i>	PSWA8 (description="PHOTOFF108", quantity="1")
<i>Int1d</i>	PSWC8 (description="PHOTOFF109", quantity="1")
<i>Int1d</i>	PSWE8 (description="PHOTOFF110", quantity="1")
<i>Int1d</i>	PSWD8 (description="PHOTOFF111", quantity="1")
<i>Int1d</i>	PSWB8 (description="PHOTOFF112", quantity="1")
<i>Int1d</i>	PSWC7 (description="PHOTOFF113", quantity="1")

<i>Int1d</i>	PSWE7 (description="PHOTOFF114", quantity="1")
<i>Int1d</i>	PSWA7 (description="PHOTOFF115", quantity="1")
<i>Int1d</i>	PSWD7 (description="PHOTOFF116", quantity="1")
<i>Int1d</i>	PSWB7 (description="PHOTOFF117", quantity="1")
<i>Int1d</i>	PSWC6 (description="PHOTOFF118", quantity="1")
<i>Int1d</i>	PSWE6 (description="PHOTOFF119", quantity="1")
<i>Int1d</i>	PSWA6 (description="PHOTOFF120", quantity="1")
<i>Int1d</i>	PSWG5 (description="PHOTOFF121", quantity="1")
<i>Int1d</i>	PSWH6 (description="PHOTOFF122", quantity="1")
<i>Int1d</i>	PSWJ6 (description="PHOTOFF123", quantity="1")
<i>Int1d</i>	PSWF6 (description="PHOTOFF124", quantity="1")
<i>Int1d</i>	PSWG6 (description="PHOTOFF125", quantity="1")
<i>Int1d</i>	PSWH7 (description="PHOTOFF126", quantity="1")
<i>Int1d</i>	PSWF7 (description="PHOTOFF127", quantity="1")
<i>Int1d</i>	PSWJ7 (description="PHOTOFF128", quantity="1")
<i>Int1d</i>	PSWG7 (description="PHOTOFF129", quantity="1")
<i>Int1d</i>	PSWH8 (description="PHOTOFF130", quantity="1")
<i>Int1d</i>	PSWF8 (description="PHOTOFF131", quantity="1")
<i>Int1d</i>	PSWG8 (description="PHOTOFF132", quantity="1")
<i>Int1d</i>	PSWJ8 (description="PHOTOFF133", quantity="1")
<i>Int1d</i>	PSWF9 (description="PHOTOFF134", quantity="1")
<i>Int1d</i>	PSWH9 (description="PHOTOFF135", quantity="1")
<i>Int1d</i>	PSWG9 (description="PHOTOFF136", quantity="1")
<i>Int1d</i>	PSWJ9 (description="PHOTOFF137", quantity="1")
<i>Int1d</i>	PSWF10 (description="PHOTOFF138", quantity="1")
<i>Int1d</i>	PSWH10 (description="PHOTOFF139", quantity="1")
<i>Int1d</i>	PSWG10 (description="PHOTOFF140", quantity="1")
<i>Int1d</i>	PSWF11 (description="PHOTOFF141", quantity="1")
<i>Int1d</i>	PSWJ10 (description="PHOTOFF142", quantity="1")
<i>Int1d</i>	PSWH11 (description="PHOTOFF143", quantity="1")
<i>Int1d</i>	PSWG11 (description="PHOTOFF144", quantity="1")
<i>Int1d</i>	PLWR1 (description="PHOTOFF145", quantity="1")
<i>Int1d</i>	PLWA8 (description="PHOTOFF146", quantity="1")
<i>Int1d</i>	PLWA7 (description="PHOTOFF147", quantity="1")
<i>Int1d</i>	PLWA6 (description="PHOTOFF148", quantity="1")
<i>Int1d</i>	PLWA9 (description="PHOTOFF149", quantity="1")
<i>Int1d</i>	PLWC9 (description="PHOTOFF150", quantity="1")
<i>Int1d</i>	PLWB8 (description="PHOTOFF151", quantity="1")
<i>Int1d</i>	PLWB7 (description="PHOTOFF152", quantity="1")
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<i>Int1d</i>	PLWA5 (description="PHOTOFF156", quantity="1")
<i>Int1d</i>	PLWT1 (description="PHOTOFF157", quantity="1")
<i>Int1d</i>	PLWB4 (description="PHOTOFF158", quantity="1")
<i>Int1d</i>	PLWC4 (description="PHOTOFF159", quantity="1")
<i>Int1d</i>	PLWB3 (description="PHOTOFF160", quantity="1")
<i>Int1d</i>	PLWC2 (description="PHOTOFF161", quantity="1")
<i>Int1d</i>	PLWB2 (description="PHOTOFF162", quantity="1")
<i>Int1d</i>	PLWB1 (description="PHOTOFF163", quantity="1")
<i>Int1d</i>	PLWA3 (description="PHOTOFF164", quantity="1")
<i>Int1d</i>	PLWA4 (description="PHOTOFF165", quantity="1")
<i>Int1d</i>	PLWA1 (description="PHOTOFF166", quantity="1")
<i>Int1d</i>	PLWDP1 (description="PHOTOFF167", quantity="1")
<i>Int1d</i>	PLWA2 (description="PHOTOFF168", quantity="1")
<i>Int1d</i>	PLWE1 (description="PHOTOFF169", quantity="1")
<i>Int1d</i>	PLWE2 (description="PHOTOFF170", quantity="1")
<i>Int1d</i>	PLWE3 (description="PHOTOFF171", quantity="1")
<i>Int1d</i>	PLWE4 (description="PHOTOFF172", quantity="1")
<i>Int1d</i>	PLWD1 (description="PHOTOFF173", quantity="1")
<i>Int1d</i>	PLWD2 (description="PHOTOFF174", quantity="1")
<i>Int1d</i>	PLWD3 (description="PHOTOFF175", quantity="1")
<i>Int1d</i>	PLWD4 (description="PHOTOFF176", quantity="1")
<i>Int1d</i>	PLWC1 (description="PHOTOFF177", quantity="1")
<i>Int1d</i>	PLWC3 (description="PHOTOFF178", quantity="1")
<i>Int1d</i>	PLWC5 (description="PHOTOFF179", quantity="1")
<i>Int1d</i>	PLWT2 (description="PHOTOFF180", quantity="1")
<i>Int1d</i>	PLWE5 (description="PHOTOFF181", quantity="1")
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<i>Int1d</i>	PLWD5 (description="PHOTOFF184", quantity="1")
<i>Int1d</i>	PLWD6 (description="PHOTOFF185", quantity="1")
<i>Int1d</i>	PLWD7 (description="PHOTOFF186", quantity="1")
<i>Int1d</i>	PLWD8 (description="PHOTOFF187", quantity="1")
<i>Int1d</i>	PLWE7 (description="PHOTOFF188", quantity="1")
<i>Int1d</i>	PLWE6 (description="PHOTOFF189", quantity="1")
<i>Int1d</i>	PLWE8 (description="PHOTOFF190", quantity="1")
<i>Int1d</i>	PLWDP2 (description="PHOTOFF191", quantity="1")
<i>Int1d</i>	PLWE9 (description="PHOTOFF192", quantity="1")
<i>Int1d</i>	PMWA13 (description="PHOTOFF193", quantity="1")
<i>Int1d</i>	PMWT1 (description="PHOTOFF194", quantity="1")
<i>Int1d</i>	PMWB12 (description="PHOTOFF195", quantity="1")
<i>Int1d</i>	PMWC13 (description="PHOTOFF196", quantity="1")
<i>Int1d</i>	PMWA12 (description="PHOTOFF197", quantity="1")

<i>Int1d</i>	PMWD12 (description="PHOTOFF198", quantity="1")
<i>Int1d</i>	PMWC12 (description="PHOTOFF199", quantity="1")
<i>Int1d</i>	PMWB11 (description="PHOTOFF200", quantity="1")
<i>Int1d</i>	PMWA11 (description="PHOTOFF201", quantity="1")
<i>Int1d</i>	PMWE13 (description="PHOTOFF202", quantity="1")
<i>Int1d</i>	PMWD11 (description="PHOTOFF203", quantity="1")
<i>Int1d</i>	PMWC11 (description="PHOTOFF204", quantity="1")
<i>Int1d</i>	PMWB10 (description="PHOTOFF205", quantity="1")
<i>Int1d</i>	PMWA10 (description="PHOTOFF206", quantity="1")
<i>Int1d</i>	PMWD10 (description="PHOTOFF207", quantity="1")
<i>Int1d</i>	PMWB9 (description="PHOTOFF208", quantity="1")
<i>Int1d</i>	PMWC10 (description="PHOTOFF209", quantity="1")
<i>Int1d</i>	PMWC9 (description="PHOTOFF210", quantity="1")
<i>Int1d</i>	PMWA9 (description="PHOTOFF211", quantity="1")
<i>Int1d</i>	PMWB8 (description="PHOTOFF212", quantity="1")
<i>Int1d</i>	PMWA8 (description="PHOTOFF213", quantity="1")
<i>Int1d</i>	PMWD8 (description="PHOTOFF214", quantity="1")
<i>Int1d</i>	PMWC8 (description="PHOTOFF215", quantity="1")
<i>Int1d</i>	PMWB7 (description="PHOTOFF216", quantity="1")
<i>Int1d</i>	PMWR1 (description="PHOTOFF217", quantity="1")
<i>Int1d</i>	PMWG1 (description="PHOTOFF218", quantity="1")
<i>Int1d</i>	PMWT2 (description="PHOTOFF219", quantity="1")
<i>Int1d</i>	PMWE1 (description="PHOTOFF220", quantity="1")
<i>Int1d</i>	PMWD1 (description="PHOTOFF221", quantity="1")
<i>Int1d</i>	PMWF1 (description="PHOTOFF222", quantity="1")
<i>Int1d</i>	PMWE2 (description="PHOTOFF223", quantity="1")
<i>Int1d</i>	PMWG2 (description="PHOTOFF224", quantity="1")
<i>Int1d</i>	PMWF2 (description="PHOTOFF225", quantity="1")
<i>Int1d</i>	PMWG3 (description="PHOTOFF226", quantity="1")
<i>Int1d</i>	PMWE3 (description="PHOTOFF227", quantity="1")
<i>Int1d</i>	PMWD3 (description="PHOTOFF228", quantity="1")
<i>Int1d</i>	PMWF3 (description="PHOTOFF229", quantity="1")
<i>Int1d</i>	PMWG4 (description="PHOTOFF230", quantity="1")
<i>Int1d</i>	PMWE4 (description="PHOTOFF231", quantity="1")
<i>Int1d</i>	PMWF4 (description="PHOTOFF232", quantity="1")
<i>Int1d</i>	PMWE5 (description="PHOTOFF233", quantity="1")
<i>Int1d</i>	PMWD5 (description="PHOTOFF234", quantity="1")
<i>Int1d</i>	PMWF5 (description="PHOTOFF235", quantity="1")
<i>Int1d</i>	PMWG5 (description="PHOTOFF236", quantity="1")
<i>Int1d</i>	PMWE6 (description="PHOTOFF237", quantity="1")
<i>Int1d</i>	PMWG6 (description="PHOTOFF238", quantity="1")
<i>Int1d</i>	PMWF6 (description="PHOTOFF239", quantity="1")

<i>Int1d</i>	PMWG7 (description="PHOTOFF240", quantity="1")
<i>Int1d</i>	PMWF10 (description="PHOTOFF241", quantity="1")
<i>Int1d</i>	PMWE11 (description="PHOTOFF242", quantity="1")
<i>Int1d</i>	PMWG11 (description="PHOTOFF243", quantity="1")
<i>Int1d</i>	PMWF11 (description="PHOTOFF244", quantity="1")
<i>Int1d</i>	PMWE12 (description="PHOTOFF245", quantity="1")
<i>Int1d</i>	PMWG12 (description="PHOTOFF246", quantity="1")
<i>Int1d</i>	PMWF12 (description="PHOTOFF247", quantity="1")
<i>Int1d</i>	PMWG13 (description="PHOTOFF248", quantity="1")
<i>Int1d</i>	PMWDP2 (description="PHOTOFF249", quantity="1")
<i>Int1d</i>	PMWE7 (description="PHOTOFF250", quantity="1")
<i>Int1d</i>	PMWD7 (description="PHOTOFF251", quantity="1")
<i>Int1d</i>	PMWF7 (description="PHOTOFF252", quantity="1")
<i>Int1d</i>	PMWE8 (description="PHOTOFF253", quantity="1")
<i>Int1d</i>	PMWG8 (description="PHOTOFF254", quantity="1")
<i>Int1d</i>	PMWF8 (description="PHOTOFF255", quantity="1")
<i>Int1d</i>	PMWE9 (description="PHOTOFF256", quantity="1")
<i>Int1d</i>	PMWG9 (description="PHOTOFF257", quantity="1")
<i>Int1d</i>	PMWD9 (description="PHOTOFF258", quantity="1")
<i>Int1d</i>	PMWF9 (description="PHOTOFF259", quantity="1")
<i>Int1d</i>	PMWE10 (description="PHOTOFF260", quantity="1")
<i>Int1d</i>	PMWG10 (description="PHOTOFF261", quantity="1")
<i>Int1d</i>	PMWC4 (description="PHOTOFF262", quantity="1")
<i>Int1d</i>	PMWB3 (description="PHOTOFF263", quantity="1")
<i>Int1d</i>	PMWC3 (description="PHOTOFF264", quantity="1")
<i>Int1d</i>	PMWB2 (description="PHOTOFF265", quantity="1")
<i>Int1d</i>	PMWD2 (description="PHOTOFF266", quantity="1")
<i>Int1d</i>	PMWA3 (description="PHOTOFF267", quantity="1")
<i>Int1d</i>	PMWA2 (description="PHOTOFF268", quantity="1")
<i>Int1d</i>	PMWC2 (description="PHOTOFF269", quantity="1")
<i>Int1d</i>	PMWB1 (description="PHOTOFF270", quantity="1")
<i>Int1d</i>	PMWA1 (description="PHOTOFF271", quantity="1")
<i>Int1d</i>	PMWDP1 (description="PHOTOFF272", quantity="1")
<i>Int1d</i>	PMWC1 (description="PHOTOFF273", quantity="1")
<i>Int1d</i>	PMWA7 (description="PHOTOFF274", quantity="1")
<i>Int1d</i>	PMWA6 (description="PHOTOFF275", quantity="1")
<i>Int1d</i>	PMWB6 (description="PHOTOFF276", quantity="1")
<i>Int1d</i>	PMWC7 (description="PHOTOFF277", quantity="1")
<i>Int1d</i>	PMWA5 (description="PHOTOFF278", quantity="1")
<i>Int1d</i>	PMWB5 (description="PHOTOFF279", quantity="1")
<i>Int1d</i>	PMWC6 (description="PHOTOFF280", quantity="1")
<i>Int1d</i>	PMWD6 (description="PHOTOFF281", quantity="1")

<i>Int1d</i>	PMWB4 (description="PHOTOFF282", quantity="1")
<i>Int1d</i>	PMWC5 (description="PHOTOFF283", quantity="1")
<i>Int1d</i>	PMWD4 (description="PHOTOFF284", quantity="1")
<i>Int1d</i>	PMWA4 (description="PHOTOFF285", quantity="1")
<i>Int1d</i>	PTCP1 (description="PHOTOFF286", quantity="1")
<i>Int1d</i>	PTCP2 (description="PHOTOFF287", quantity="1")
<i>Int1d</i>	PTCP3 (description="PHOTOFF288", quantity="1")
<i>Int1d</i>	adcFlags (description="PHOTOFFADCFLGS", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.25. SPIRE Product Level 0.5 - Beam Steering Mirror Timeline

<i>product (type="BSMT", description="Beam Steering Mirror Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")

StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	type (description="Product Type Identification", quantity="arcsec/year")
StringParameter	description (description="Name of this product", quantity="arcsec/year")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec/year")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec/year")
LongParameter	maskMaster (description="Mask value for master bit", quantity="arcsec/year")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="arcsec/year")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="arcsec/year")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
<i>Columns</i>	
<i>table dataset</i>	(name="signal", description="Signal timelines")
<i>Metadata</i>	
<i>Columns</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>IntId</i>	chopSens (description="BSMCHOPSENSSIG", quantity="1")
<i>IntId</i>	chopMotorCurr (description="BSMCHOPMOTORCURRE", quantity="1")
<i>IntId</i>	chopMotorVolt (description="BSMCHOPMOTORVOLT", quantity="1")
<i>IntId</i>	jiggSens (description="BSMJIGGSENSSIG", quantity="1")
<i>IntId</i>	jiggMotorCurr (description="BSMJIGGMOTORCURRE", quantity="1")
<i>IntId</i>	jiggMotorVolt (description="BSMJIGGMOTORVOLT", quantity="1")
<i>LongId</i>	transmTime (description="BSMTTIME", quantity="1")

	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.26. SPIRE Product Level 0.5 - Subsystem Control Unit Timeline

<i>product (type="SCUT", description="Subsystem Control Unit Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")

DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	type (description="Product Type Identification", quantity="arcsec/year")
StringParameter	description (description="Name of this product", quantity="arcsec/year")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec/year")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec/year")
LongParameter	maskMaster (description="Mask value for master bit", quantity="arcsec/year")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="arcsec/year")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="arcsec/year")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
<i>Columns</i>	
<i>table dataset</i>	(name="signal", description="Signal timelines")
<i>Metadata</i>	
<i>Columns</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>DoubleId</i>	pumpHTemp (description="SCUPHTEMP", quantity="K")
<i>DoubleId</i>	pumpHSTemp (description="SCUPHSTEMP", quantity="K")
<i>DoubleId</i>	evapHSTemp (description="SCUEVHSTEMP", quantity="K")
<i>DoubleId</i>	shuntTemp (description="SCUSHUNTTEMP", quantity="K")
<i>DoubleId</i>	emcFilTemp (description="SCUEMCFILTEMP", quantity="K")
<i>DoubleId</i>	specL0Temp (description="SCUSL0TEMP", quantity="K")
<i>DoubleId</i>	photL0Temp (description="SCUPL0TEMP", quantity="K")
<i>DoubleId</i>	osbTemp (description="SCUOPTTEMP", quantity="K")
<i>DoubleId</i>	fpuBaffTemp (description="SCUBAFTEMP", quantity="K")
<i>DoubleId</i>	bsmIntTemp (description="SCUBSMIFTEMP", quantity="K")
<i>DoubleId</i>	scal2Temp (description="SCUSCAL2TEMP", quantity="K")
<i>DoubleId</i>	scal4Temp (description="SCUSCAL4TEMP", quantity="K")
<i>DoubleId</i>	scalFlanTemp (description="SCUSCALTEMP", quantity="K")
<i>DoubleId</i>	smecIntTemp (description="CUSMECIFTEMP", quantity="K")
<i>DoubleId</i>	smecTemp (description="CUSMECTEMP", quantity="K")

<i>Double1d</i>	bsmTemp (description="SCUBSMTEMP", quantity="K")
<i>Double1d</i>	ceSubKTemp (description="SCUSUBKTEMP", quantity="K")
<i>Double1d</i>	tchVolt (description="SCUTCHTRV", quantity="V")
<i>Double1d</i>	pcalCurr (description="SCUPCALCURR", quantity="A")
<i>Double1d</i>	pcalVolt (description="SCUPCALV", quantity="V")
<i>Double1d</i>	scal2Curr (description="SCUSCAL2CURR", quantity="A")
<i>Double1d</i>	scal2Volt (description="SCUSCAL2V", quantity="V")
<i>Double1d</i>	scal4Curr (description="SCUSCAL4CURR", quantity="A")
<i>Double1d</i>	scal4Volt (description="SCUSCAL4V", quantity="V")
<i>Int1d</i>	adcFlags (description="SCUADC_FLAGS", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.27. SPIRE Product Level 0.5 - Critical House Keeping Timeline

<i>product (type="CHKT", description="Critical House Keeping Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")

StringParameter	biasMode (description="Bias mode")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="s")
<i>Columns</i>	
<i>table dataset</i>	(name="signal", description="Signal timelines")
<i>Metadata</i>	
<i>Columns</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>IntId</i>	SID_C (description="SID_C", quantity="1")
<i>LongId</i>	OBSID_C (description="OBSID_C", quantity="1")
<i>LongId</i>	BBID_C (description="BBID_C", quantity="1")

<i>StringId</i>	MODE_C (description="MODE_C", quantity="1")
<i>IntId</i>	STEP_C (description="STEP_C", quantity="1")
<i>IntId</i>	TCRECV_C (description="TCRECV_C", quantity="1")
<i>IntId</i>	TCEXEC_C (description="TCEXEC_C", quantity="1")
<i>StringId</i>	MEMSTAT1_C (description="MEMSTAT1_C", quantity="1")
<i>StringId</i>	MEMSTAT2_C (description="MEMSTAT2_C", quantity="1")
<i>StringId</i>	MEMSTAT3_C (description="MEMSTAT3_C", quantity="1")
<i>StringId</i>	MONSTAT_C (description="MONSTAT_C", quantity="1")
<i>StringId</i>	SCUDCDCSTAT_C (description="SCUDCDCSTAT_C", quantity="1")
<i>StringId</i>	MCUIFSTAT_C (description="MCUIFSTAT_C", quantity="1")
<i>StringId</i>	SCUIFSTAT_C (description="SCUIFSTAT_C", quantity="1")
<i>StringId</i>	PSWJFETSTAT_C (description="PSWJFETSTAT_C", quantity="1")
<i>StringId</i>	PSW_VDD_JFET1_C (description="PSW_VDD_JFET1_C", quantity="1")
<i>StringId</i>	PSW_VDD_JFET2_C (description="PSW_VDD_JFET2_C", quantity="1")
<i>StringId</i>	PSW_VDD_JFET3_C (description="PSW_VDD_JFET3_C", quantity="1")
<i>StringId</i>	PSW_VDD_JFET4_C (description="PSW_VDD_JFET4_C", quantity="1")
<i>StringId</i>	PSW_VDD_JFET5_C (description="PSW_VDD_JFET5_C", quantity="1")
<i>StringId</i>	PSW_VDD_JFET6_C (description="PSW_VDD_JFET6_C", quantity="1")
<i>StringId</i>	PMLWJFETSTAT_C (description="PMLWJFETSTAT_C", quantity="1")
<i>StringId</i>	PMW_VDD_JFET1_C (description="PMW_VDD_JFET1_C", quantity="1")
<i>StringId</i>	PMW_VDD_JFET2_C (description="PMW_VDD_JFET2_C", quantity="1")
<i>StringId</i>	PMW_VDD_JFET3_C (description="PMW_VDD_JFET3_C", quantity="1")
<i>StringId</i>	PMW_VDD_JFET4_C (description="PMW_VDD_JFET4_C", quantity="1")
<i>StringId</i>	PLW_VDD_JFET1_C (description="PLW_VDD_JFET1_C", quantity="1")
<i>StringId</i>	PLW_VDD_JFET2_C (description="PLW_VDD_JFET2_C", quantity="1")
<i>StringId</i>	TC_VDD_JFET_C (description="TC_VDD_JFET_C", quantity="1")
<i>StringId</i>	SPECJFETSTAT_C (description="SPECJFETSTAT_C", quantity="1")
<i>StringId</i>	SLW_VDD_JFET1_C (description="SLW_VDD_JFET1_C", quantity="1")
<i>StringId</i>	SSW_VDD_JFET1_C (description="SSW_VDD_JFET1_C", quantity="1")
<i>StringId</i>	SSW_VDD_JFET2_C (description="SSW_VDD_JFET2_C", quantity="1")

<i>StringId</i>	LIASSTAT_C (description="LIASSTAT_C", quantity="1")
<i>StringId</i>	LIAP1STAT_C (description="LIAP1STAT_C", quantity="1")
<i>StringId</i>	LIAP2STAT_C (description="LIAP2STAT_C", quantity="1")
<i>StringId</i>	LIAP3STAT_C (description="LIAP3STAT_C", quantity="1")
<i>StringId</i>	LIAP4STAT_C (description="LIAP4STAT_C", quantity="1")
<i>StringId</i>	LIAP5STAT_C (description="LIAP5STAT_C", quantity="1")
<i>StringId</i>	LIAP6STAT_C (description="LIAP6STAT_C", quantity="1")
<i>StringId</i>	LIAP7STAT_C (description="LIAP7STAT_C", quantity="1")
<i>StringId</i>	LIAP8STAT_C (description="LIAP8STAT_C", quantity="1")
<i>StringId</i>	LIAP9STAT_C (description="LIAP9STAT_C", quantity="1")
<i>StringId</i>	LIAS1STAT_C (description="LIAS1STAT_C", quantity="1")
<i>StringId</i>	LIAS2STAT_C (description="LIAS2STAT_C", quantity="1")
<i>StringId</i>	LIAS3STAT_C (description="LIAS3STAT_C", quantity="1")
<i>StringId</i>	MCUERR_C (description="MCUERR_C", quantity="1")
<i>StringId</i>	SMECSTAT_C (description="SMECSTAT_C", quantity="1")
<i>StringId</i>	BSMSTAT_C (description="BSMSTAT_C", quantity="1")
<i>StringId</i>	SCUSTAT_C (description="SCUSTAT_C", quantity="1")
<i>DoubleId</i>	SUBKTEMP_C (description="SUBKTEMP_C", quantity="K")
<i>IntId</i>	OBSVER_C (description="OBSVER_C", quantity="1")
<i>ShortId</i>	OBSVER1_C (description="OBSVER1_C", quantity="1")
<i>ShortId</i>	OBSVER2_C (description="OBSVER2_C", quantity="1")
<i>StringId</i>	OBSVER3_C (description="OBSVER3_C", quantity="1")
<i>StringId</i>	CHK_VERS (description="CHK_VERS", quantity="1")
<i>StringId</i>	CHK_TYPE (description="CHK_TYPE", quantity="1")
<i>StringId</i>	CHK_DFHFLAG (description="CHK_DFHFLAG", quantity="1")
<i>ShortId</i>	CHK_APID (description="CHK_APID", quantity="1")
<i>StringId</i>	CHK_SEGFLAG (description="CHK_SEGFLAG", quantity="1")
<i>ShortId</i>	CHK_SSC (description="CHK_SSC", quantity="1")
<i>IntId</i>	CHK_PKTLEN (description="CHK_PKTLEN", quantity="1")
<i>StringId</i>	CHK_PUSVERS (description="CHK_PUSVERS", quantity="1")
<i>ShortId</i>	CHK_PKTTYPE (description="CHK_PKTTYPE", quantity="1")
<i>ShortId</i>	CHK_PKTSTYPE (description="CHK_PKTSTYPE", quantity="1")
<i>LongId</i>	CHK_PKTCTIME (description="CHK_PKTCTIME", quantity="1")
<i>IntId</i>	CHK_PKTFTIME (description="CHK_PKTFTIME", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.28. SPIRE Product Level 0.5 - Nominal House Keeping Timeline

<i>product (type="NHKT", description="Nominal House Keeping Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")

DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="s")
<i>Columns</i>	
<i>table dataset</i>	(name="signal", description="Signal timelines")
<i>Metadata</i>	
<i>Columns</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>StringId</i>	NHK_VERS (description="NHK_VERS", quantity="1")
<i>StringId</i>	NHK_TYPE (description="NHK_TYPE", quantity="1")
<i>StringId</i>	NHK_DFHFLAG (description="NHK_DFHFLAG", quantity="1")
<i>ShortId</i>	NHK_APID (description="NHK_APID", quantity="1")
<i>StringId</i>	NHK_SEGFLAG (description="NHK_SEGFLAG", quantity="1")
<i>ShortId</i>	NHK_SSC (description="NHK_SSC", quantity="1")
<i>IntId</i>	NHK_PKTLEN (description="NHK_PKTLEN", quantity="1")
<i>StringId</i>	NHK_PUSVERS (description="NHK_PUSVERS", quantity="1")
<i>ShortId</i>	NHK_PKTTYPE (description="NHK_PKTTYPE", quantity="1")
<i>ShortId</i>	NHK_PKTSTYPE (description="NHK_PKTSTYPE", quantity="1")
<i>LongId</i>	NHK_PKTCTIME (description="NHK_PKTCTIME", quantity="1")
<i>IntId</i>	NHK_PKTFTIME (description="NHK_PKTFTIME", quantity="1")
<i>StringId</i>	BBFULLTYPE (description="BBFULLTYPE", quantity="1")
<i>StringId</i>	MODE (description="MODE", quantity="1")
<i>IntId</i>	STEP (description="STEP", quantity="1")
<i>StringId</i>	THSK (description="THSK", quantity="1")
<i>LongId</i>	TRESET (description="TRESET", quantity="1")
<i>IntId</i>	TCRECV (description="TCRECV", quantity="1")
<i>IntId</i>	TCRECN (description="TCRECN", quantity="1")

<i>Int1d</i>	TCEXEC (description="TCEXEC", quantity="1")
<i>Int1d</i>	TCEXEN (description="TCEXEN", quantity="1")
<i>Int1d</i>	TM1N (description="TM1N", quantity="1")
<i>Int1d</i>	TM2N (description="TM2N", quantity="1")
<i>Int1d</i>	TM3N (description="TM3N", quantity="1")
<i>Int1d</i>	TM4N (description="TM4N", quantity="1")
<i>Int1d</i>	TM5N (description="TM5N", quantity="1")
<i>Int1d</i>	DCUFRAMECNT (description="DCUFRAMECNT", quantity="1")
<i>Int1d</i>	MCUFRAMECNT (description="MCUFRAMECNT", quantity="1")
<i>Int1d</i>	SCUFRAMECNT (description="SCUFRAMECNT", quantity="1")
<i>String1d</i>	TSYNC (description="TSYNC", quantity="1")
<i>String1d</i>	TDIFF (description="TDIFF", quantity="1")
<i>String1d</i>	MEMSTAT_1 (description="MEMSTAT_1", quantity="1")
<i>String1d</i>	MEMSTAT_2 (description="MEMSTAT_2", quantity="1")
<i>String1d</i>	MEMSTAT_3 (description="MEMSTAT_3", quantity="1")
<i>String1d</i>	MONSTAT (description="MONSTAT", quantity="1")
<i>String1d</i>	DCULSIFSTAT (description="DCULSIFSTAT", quantity="1")
<i>String1d</i>	DCUHSIFMODE (description="DCUHSIFMODE", quantity="1")
<i>String1d</i>	MCULSIFSTAT (description="MCULSIFSTAT", quantity="1")
<i>String1d</i>	MCUHSIFMODE (description="MCUHSIFMODE", quantity="1")
<i>String1d</i>	SCULSIFSTAT (description="SCULSIFSTAT", quantity="1")
<i>String1d</i>	SCUHSIFMODE (description="SCUHSIFMODE", quantity="1")
<i>Int1d</i>	BBCOUNT (description="BBCOUNT", quantity="1")
<i>Int1d</i>	VMSTAT (description="VMSTAT", quantity="1")
<i>Int1d</i>	VM1STAT (description="VM1STAT", quantity="1")
<i>Int1d</i>	VM2STAT (description="VM2STAT", quantity="1")
<i>Int1d</i>	VM3STAT (description="VM3STAT", quantity="1")
<i>Int1d</i>	VMSTATAFX (description="VMSTATAFX", quantity="1")
<i>Int1d</i>	SD_VALUE0 (description="SD_VALUE0", quantity="1")
<i>Int1d</i>	SD_ADDRESS0 (description="SD_ADDRESS0", quantity="1")
<i>Int1d</i>	SD_VALUE1 (description="SD_VALUE1", quantity="1")
<i>Int1d</i>	SD_ADDRESS1 (description="SD_ADDRESS1", quantity="1")
<i>Int1d</i>	SD_VALUE2 (description="SD_VALUE2", quantity="1")
<i>Int1d</i>	SD_ADDRESS2 (description="SD_ADDRESS2", quantity="1")
<i>Int1d</i>	SD_VALUE3 (description="SD_VALUE3", quantity="1")
<i>Int1d</i>	SD_ADDRESS3 (description="SD_ADDRESS3", quantity="1")
<i>Double1d</i>	DPUP5V (description="DPUP5V", quantity="V")
<i>Double1d</i>	DPUP15V (description="DPUP15V", quantity="V")
<i>Double1d</i>	DPUM15V (description="DPUM15V", quantity="V")
<i>Double1d</i>	DPUTEMP (description="DPUTEMP", quantity="K")
<i>Int1d</i>	CPULOAD (description="CPULOAD", quantity="1")
<i>Long1d</i>	LSLOAD (description="LSLOAD", quantity="1")

<i>DoubleId</i>	DPUP2_5V (description="DPUP2_5V", quantity="V")
<i>StringId</i>	DCUDATAMODE (description="DCUDATAMODE", quantity="1")
<i>StringId</i>	DCUDATAFRMS (description="DCUDATAFRMS", quantity="1")
<i>StringId</i>	DCUDATASTAT (description="DCUDATASTAT", quantity="1")
<i>IntId</i>	PHOTBIASDIV (description="PHOTBIASDIV", quantity="1")
<i>StringId</i>	PHOTBIASMODE (description="PHOTBIASMODE", quantity="1")
<i>IntId</i>	PHOTMCLKDIV (description="PHOTMCLKDIV", quantity="1")
<i>DoubleId</i>	PSWBIAS (description="PSWBIAS", quantity="V")
<i>DoubleId</i>	PMWBIAS (description="PMWBIAS", quantity="V")
<i>DoubleId</i>	PLWBIAS (description="PLWBIAS", quantity="V")
<i>DoubleId</i>	TCBIAS (description="TCBIAS", quantity="V")
<i>DoubleId</i>	PSWPHASE (description="PSWPHASE", quantity="deg")
<i>DoubleId</i>	PMWPHASE (description="PMWPHASE", quantity="deg")
<i>DoubleId</i>	PLWPHASE (description="PLWPHASE", quantity="deg")
<i>DoubleId</i>	TCPHASE (description="TCPHASE", quantity="deg")
<i>IntId</i>	PSWJFETSTAT (description="PSWJFETSTAT", quantity="1")
<i>StringId</i>	PSW_VDD_JFET1 (description="PSW_VDD_JFET1", quantity="1")
<i>StringId</i>	PSW_VDD_JFET2 (description="PSW_VDD_JFET2", quantity="1")
<i>StringId</i>	PSW_VDD_JFET3 (description="PSW_VDD_JFET3", quantity="1")
<i>StringId</i>	PSW_VDD_JFET4 (description="PSW_VDD_JFET4", quantity="1")
<i>StringId</i>	PSW_VDD_JFET5 (description="PSW_VDD_JFET5", quantity="1")
<i>StringId</i>	PSW_VDD_JFET6 (description="PSW_VDD_JFET6", quantity="1")
<i>IntId</i>	PMLWJFETSTAT (description="PMLWJFETSTAT", quantity="1")
<i>StringId</i>	PMW_VDD_JFET1 (description="PMW_VDD_JFET1", quantity="1")
<i>StringId</i>	PMW_VDD_JFET2 (description="PMW_VDD_JFET2", quantity="1")
<i>StringId</i>	PMW_VDD_JFET3 (description="PMW_VDD_JFET3", quantity="1")
<i>StringId</i>	PMW_VDD_JFET4 (description="PMW_VDD_JFET4", quantity="1")
<i>StringId</i>	PLW_VDD_JFET1 (description="PLW_VDD_JFET1", quantity="1")
<i>StringId</i>	PLW_VDD_JFET2 (description="PLW_VDD_JFET2", quantity="1")
<i>StringId</i>	TC_VDD_JFET (description="TC_VDD_JFET", quantity="1")
<i>DoubleId</i>	PSWJFET1V (description="PSWJFET1V", quantity="V")
<i>DoubleId</i>	PSWJFET2V (description="PSWJFET2V", quantity="V")
<i>DoubleId</i>	PSWJFET3V (description="PSWJFET3V", quantity="V")
<i>DoubleId</i>	PSWJFET4V (description="PSWJFET4V", quantity="V")
<i>DoubleId</i>	PSWJFET5V (description="PSWJFET5V", quantity="V")
<i>DoubleId</i>	PSWJFET6V (description="PSWJFET6V", quantity="V")
<i>DoubleId</i>	PMWJFET1V (description="PMWJFET1V", quantity="V")
<i>DoubleId</i>	PMWJFET2V (description="PMWJFET2V", quantity="V")
<i>DoubleId</i>	PMWJFET3V (description="PMWJFET3V", quantity="V")
<i>DoubleId</i>	PMWJFET4V (description="PMWJFET4V", quantity="V")
<i>DoubleId</i>	PLWJFET1V (description="PLWJFET1V", quantity="V")
<i>DoubleId</i>	PLWJFET2V (description="PLWJFET2V", quantity="V")

<i>Double1d</i>	PHOTHTRV (description="PHOTHTRV", quantity="V")
<i>Double1d</i>	TCJFETV (description="TCJFETV", quantity="V")
<i>Int1d</i>	SPECBIASDIV (description="SPECBIASDIV", quantity="1")
<i>String1d</i>	SPECBIASMODE (description="SPECBIASMODE", quantity="1")
<i>Int1d</i>	SPECMCLKDIV (description="SPECMCLKDIV", quantity="1")
<i>Double1d</i>	SSWBIAS (description="SSWBIAS", quantity="V")
<i>Double1d</i>	SLWBIAS (description="SLWBIAS", quantity="V")
<i>Double1d</i>	SSWPHASE (description="SSWPHASE", quantity="deg")
<i>Double1d</i>	SLWPHASE (description="SLWPHASE", quantity="deg")
<i>Int1d</i>	SPECJFETSTAT (description="SPECJFETSTAT", quantity="1")
<i>String1d</i>	SLW_VDD_JFET1 (description="SLW_VDD_JFET1", quantity="1")
<i>String1d</i>	SSW_VDD_JFET1 (description="SSW_VDD_JFET1", quantity="1")
<i>String1d</i>	SSW_VDD_JFET2 (description="SSW_VDD_JFET2", quantity="1")
<i>Double1d</i>	SSWJFET1V (description="SSWJFET1V", quantity="V")
<i>Double1d</i>	SSWJFET2V (description="SSWJFET2V", quantity="V")
<i>Double1d</i>	SLWJFET1V (description="SLWJFET1V", quantity="V")
<i>Double1d</i>	SPECHTRV (description="SPECHTRV", quantity="V")
<i>Double1d</i>	TC1TEMP (description="TC1TEMP", quantity="V")
<i>Double1d</i>	TC2TEMP (description="TC2TEMP", quantity="V")
<i>Double1d</i>	TC3TEMP (description="TC3TEMP", quantity="V")
<i>Double1d</i>	BIASP5V (description="BIASP5V", quantity="V")
<i>Double1d</i>	BIASP9V (description="BIASP9V", quantity="V")
<i>Double1d</i>	BIASM9V (description="BIASM9V", quantity="V")
<i>Int1d</i>	OBSVER (description="OBSVER", quantity="1")
<i>Short1d</i>	OBSVER1 (description="OBSVER1", quantity="1")
<i>Short1d</i>	OBSVER2 (description="OBSVER2", quantity="1")
<i>String1d</i>	OBSVER3 (description="OBSVER3", quantity="1")
<i>String1d</i>	TMMODE (description="TMMODE", quantity="1")
<i>Int1d</i>	FIFO_DF_FLAG (description="FIFO_DF_FLAG", quantity="1")
<i>Double1d</i>	PLIAP5V (description="PLIAP5V", quantity="V")
<i>Double1d</i>	PLIAP9V (description="PLIAP9V", quantity="V")
<i>Double1d</i>	PLIAM9V (description="PLIAM9V", quantity="V")
<i>Double1d</i>	SLIAP5V (description="SLIAP5V", quantity="V")
<i>Double1d</i>	SLIAP9V (description="SLIAP9V", quantity="V")
<i>Double1d</i>	SLIAM9V (description="SLIAM9V", quantity="V")
<i>Double1d</i>	LIAP9TEMP (description="LIAP9TEMP", quantity="K")
<i>Double1d</i>	LIAP8TEMP (description="LIAP8TEMP", quantity="K")
<i>Double1d</i>	LIAP7TEMP (description="LIAP7TEMP", quantity="K")
<i>Double1d</i>	LIAP6TEMP (description="LIAP6TEMP", quantity="K")
<i>Double1d</i>	LIAP5TEMP (description="LIAP5TEMP", quantity="K")
<i>Double1d</i>	LIAP4TEMP (description="LIAP4TEMP", quantity="K")
<i>Double1d</i>	LIAP3TEMP (description="LIAP3TEMP", quantity="K")

<i>Double1d</i>	LIAP2TEMP (description="LIAP2TEMP", quantity="K")
<i>Double1d</i>	LIAP1TEMP (description="LIAP1TEMP", quantity="K")
<i>Double1d</i>	LIAS1TEMP (description="LIAS1TEMP", quantity="K")
<i>Double1d</i>	LIAS2TEMP (description="LIAS2TEMP", quantity="K")
<i>Double1d</i>	LIAS3TEMP (description="LIAS3TEMP", quantity="K")
<i>Double1d</i>	BIASTEMP (description="BIASTEMP", quantity="K")
<i>Double1d</i>	DAQTEMP (description="DAQTEMP", quantity="K")
<i>Int1d</i>	LIASSTAT (description="LIASSTAT", quantity="1")
<i>String1d</i>	LIAP1STAT (description="LIAP1STAT", quantity="1")
<i>String1d</i>	LIAP2STAT (description="LIAP2STAT", quantity="1")
<i>String1d</i>	LIAP3STAT (description="LIAP3STAT", quantity="1")
<i>String1d</i>	LIAP4STAT (description="LIAP4STAT", quantity="1")
<i>String1d</i>	LIAP5STAT (description="LIAP5STAT", quantity="1")
<i>String1d</i>	LIAP6STAT (description="LIAP6STAT", quantity="1")
<i>String1d</i>	LIAP7STAT (description="LIAP7STAT", quantity="1")
<i>String1d</i>	LIAP8STAT (description="LIAP8STAT", quantity="1")
<i>String1d</i>	LIAP9STAT (description="LIAP9STAT", quantity="1")
<i>String1d</i>	LIAS1STAT (description="LIAS1STAT", quantity="1")
<i>String1d</i>	LIAS2STAT (description="LIAS2STAT", quantity="1")
<i>String1d</i>	LIAS3STAT (description="LIAS3STAT", quantity="1")
<i>Int1d</i>	MCUIFSTAT (description="MCUIFSTAT", quantity="1")
<i>Int1d</i>	MCUIFCTRL (description="MCUIFCTRL", quantity="1")
<i>Int1d</i>	MCUSSDEL (description="MCUSSDEL", quantity="1")
<i>Double1d</i>	MCUP5V (description="MCUP5V", quantity="V")
<i>Double1d</i>	MCUP14V (description="MCUP14V", quantity="V")
<i>Double1d</i>	MCUM14V (description="MCUM14V", quantity="V")
<i>Double1d</i>	MCUP15V (description="MCUP15V", quantity="V")
<i>Double1d</i>	MCUM15V (description="MCUM15V", quantity="V")
<i>Double1d</i>	MCUMACTEMP (description="MCUMACTEMP", quantity="K")
<i>Double1d</i>	MCUSMECTEMP (description="MCUSMECTEMP", quantity="K")
<i>Double1d</i>	MCUBSMTEMP (description="MCUBSMTEMP", quantity="K")
<i>String1d</i>	MCUERR (description="MCUERR", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTLSW (description="MCUSCHEDCNTLSW", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTMSW (description="MCUSCHEDCNTMSW", quantity="1")
<i>Int1d</i>	MCUTM10TSAMPLE (description="MCUTM10TSAMPLE", quantity="1")
<i>String1d</i>	MCUFRAMESTART (description="MCUFRAMESTART", quantity="1")
<i>Int1d</i>	MCUTM12TSAMPLE (description="MCUTM12TSAMPLE", quantity="1")
<i>Int1d</i>	MCUFRAMES (description="MCUFRAMES", quantity="1")

<i>Int1d</i>	MCUTM14TSAMPLE (description="MCUTM14TSAMPLE", quantity="1")
<i>Int1d</i>	MCUTM15TSAMPLE (description="MCUTM15TSAMPLE", quantity="1")
<i>String1d</i>	MCUTMSTATUS (description="MCUTMSTATUS", quantity="1")
<i>String1d</i>	MCUBOOTSTAT (description="MCUBOOTSTAT", quantity="1")
<i>Int1d</i>	MCUDLOADCONF (description="MCUDLOADCONF", quantity="1")
<i>Int1d</i>	SMECLOSTCOUNT (description="SMECLOSTCOUNT", quantity="1")
<i>Int1d</i>	SMECENCPWR (description="SMECENCPWR", quantity="1")
<i>String1d</i>	SMECLVDTPWR (description="SMECLVDTPWR", quantity="1")
<i>String1d</i>	SMECLATCHSTAT (description="SMECLATCHSTAT", quantity="1")
<i>String1d</i>	SMECLOOPMODE (description="SMECLOOPMODE", quantity="1")
<i>Double1d</i>	SCANSTART (description="SCANSTART", quantity="cm")
<i>Double1d</i>	SCANEND (description="SCANEND", quantity="cm")
<i>Int1d</i>	SCANFSPEED (description="SCANFSPEED", quantity="1")
<i>Int1d</i>	SCANS (description="SCANS", quantity="1")
<i>String1d</i>	SCANMODE (description="SCANMODE", quantity="1")
<i>Int1d</i>	SMECKP (description="SMECKP", quantity="1")
<i>Int1d</i>	SMECKD (description="SMECKD", quantity="1")
<i>Int1d</i>	SMECDFILT (description="SMECDFILT", quantity="1")
<i>Int1d</i>	SMECKI (description="SMECKI", quantity="1")
<i>Int1d</i>	SMECINTLIMIT (description="SMECINTLIMIT", quantity="1")
<i>Int1d</i>	SMECINTTHRESH (description="SMECINTTHRESH", quantity="1")
<i>Int1d</i>	SMECRATELIMIT (description="SMECRATELIMIT", quantity="1")
<i>Int1d</i>	SMECDFILT2 (description="SMECDFILT2", quantity="1")
<i>Int1d</i>	SMECFFGAIN (description="SMECFFGAIN", quantity="1")
<i>Int1d</i>	SMECFFOFFSET (description="SMECFFOFFSET", quantity="1")
<i>Int1d</i>	SCANRSPEED (description="SCANRSPEED", quantity="1")
<i>Int1d</i>	SMECBEMFGAIN (description="SMECBEMFGAIN", quantity="1")
<i>Int1d</i>	SMECMOTORRES (description="SMECMOTORRES", quantity="1")
<i>Int1d</i>	SMECMOTORBEMF (description="SMECMOTORBEMF", quantity="1")
<i>Int1d</i>	SMECRATESCALE (description="SMECRATESCALE", quantity="1")
<i>Double1d</i>	SMECLVDTOFFSET (description="SMECLVDTOFFSET", quantity="cm")
<i>Double1d</i>	SMECLVDTSCALE (description="SMECLVDTSCALE", quantity="cm")
<i>String1d</i>	SMECSTAT (description="SMECSTAT", quantity="1")
<i>String1d</i>	SMECFLAG (description="SMECFLAG", quantity="1")
<i>String1d</i>	SMECLVDTSIGN (description="SMECLVDTSIGN", quantity="1")
<i>String1d</i>	SMECINIT (description="SMECINIT", quantity="1")
<i>String1d</i>	SMECSCANDIR (description="SMECSCANDIR", quantity="1")
<i>Short1d</i>	SMECSCANCNT (description="SMECSCANCNT", quantity="1")

<i>Double1d</i>	SMECENCPOSN (description="SMECENCPOSN", quantity="cm")
<i>Int1d</i>	SMECENC SIG1 (description="SMECENC SIG1", quantity="1")
<i>Int1d</i>	SMECENC SIG2 (description="SMECENC SIG2", quantity="1")
<i>Int1d</i>	SMECENC SIG3 (description="SMECENC SIG3", quantity="1")
<i>Double1d</i>	SMECLVDTPOSN (description="SMECLVDTPOSN", quantity="cm")
<i>Int1d</i>	SMECLVDTAC SIG (description="SMECLVDTAC SIG", quantity="1")
<i>Int1d</i>	SMECLVDTDC SIG (description="SMECLVDTDC SIG", quantity="1")
<i>Double1d</i>	SMECTRAJPOSN (description="SMECTRAJPOSN", quantity="cm")
<i>Int1d</i>	SMECDACVAL (description="SMECDACVAL", quantity="1")
<i>Double1d</i>	SMECPOSNDELTA (description="SMECPOSNDELTA", quantity="cm")
<i>Double1d</i>	SMECENC FINEPOSN (description="SMECENC FINEPOSN", quantity="cm")
<i>Int1d</i>	SMECMEANSPEED (description="SMECMEANSPEED", quantity="1")
<i>Double1d</i>	SMECSCANPOSNERR (description="SMECSCANPOSNERR", quantity="cm")
<i>Double1d</i>	SMECMOTORCURR (description="SMECMOTORCURR", quantity="A")
<i>Double1d</i>	SMECMOTORVOLT (description="SMECMOTORVOLT", quantity="V")
<i>Int1d</i>	SMECENC SIG1AMP (description="SMECENC SIG1AMP", quantity="1")
<i>Int1d</i>	SMECENC SIG1OFF (description="SMECENC SIG1OFF", quantity="1")
<i>Int1d</i>	SMECENC SIG2AMP (description="SMECENC SIG2AMP", quantity="1")
<i>Int1d</i>	SMECENC SIG2OFF (description="SMECENC SIG2OFF", quantity="1")
<i>Int1d</i>	SMECENC SIG3AMP (description="SMECENC SIG3AMP", quantity="1")
<i>Int1d</i>	SMECENC SIG3OFF (description="SMECENC SIG3OFF", quantity="1")
<i>String1d</i>	CHOPSENSPWR (description="CHOPSENSPWR", quantity="1")
<i>String1d</i>	CHOPLOOPMODE (description="CHOPLOOPMODE", quantity="1")
<i>Int1d</i>	CHOPPOSN (description="CHOPPOSN", quantity="1")
<i>Int1d</i>	CHOPPOSN2 (description="CHOPPOSN2", quantity="1")
<i>String1d</i>	BSMMODE (description="BSMMODE", quantity="1")
<i>Int1d</i>	CHOPFFOFFSET (description="CHOPFFOFFSET", quantity="1")
<i>Int1d</i>	CHOPKP (description="CHOPKP", quantity="1")
<i>Int1d</i>	CHOPKD (description="CHOPKD", quantity="1")
<i>Int1d</i>	CHOPKI (description="CHOPKI", quantity="1")
<i>Int1d</i>	CHOPINTREF (description="CHOPINTREF", quantity="1")
<i>Int1d</i>	CHOPINTLIMIT (description="CHOPINTLIMIT", quantity="1")
<i>Int1d</i>	CHOPFFGAIN (description="CHOPFFGAIN", quantity="1")
<i>Int1d</i>	CHOPFFGAINDIFF (description="CHOPFFGAINDIFF", quantity="1")
<i>Int1d</i>	CHOPDIFFTC1 (description="CHOPDIFFTC1", quantity="1")

<i>Int1d</i>	CHOPDIFFTC2 (description="CHOPDIFFTC2", quantity="1")
<i>Int1d</i>	CHOPRATELIMIT (description="CHOPRATELIMIT", quantity="1")
<i>Int1d</i>	CHOPMOTBEMFGAIN (description="CHOPMOTBEMFGAIN", quantity="1")
<i>Int1d</i>	CHOPMOTRES (description="CHOPMOTRES", quantity="1")
<i>Int1d</i>	CHOPMOTIND (description="CHOPMOTIND", quantity="1")
<i>Int1d</i>	CHOPRATESCALE (description="CHOPRATESCALE", quantity="1")
<i>Int1d</i>	CHOPPOSNSCALE (description="CHOPPOSNSCALE", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL1 (description="CHOPBEMFRATFIL1", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL2 (description="CHOPBEMFRATFIL2", quantity="1")
<i>Int1d</i>	CHOPJIGGCOUPLE (description="CHOPJIGGCOUPLE", quantity="1")
<i>String1d</i>	BSMSTAT (description="BSMSTAT", quantity="1")
<i>Int1d</i>	CHOPPOSNERR (description="CHOPPOSNERR", quantity="1")
<i>Int1d</i>	CHOPSENSSIG (description="CHOPSENSSIG", quantity="1")
<i>Double1d</i>	CHOPDACVAL (description="CHOPDACVAL", quantity="V")
<i>Double1d</i>	CHOPMOTORCURR (description="CHOPMOTORCURR", quantity="A")
<i>Double1d</i>	CHOPMOTORVOLT (description="CHOPMOTORVOLT", quantity="V")
<i>String1d</i>	JIGGSENSPWR (description="JIGGSENSPWR", quantity="1")
<i>String1d</i>	JIGGLOOPMODE (description="JIGGLOOPMODE", quantity="1")
<i>Int1d</i>	JIGGPOSN (description="JIGGPOSN", quantity="1")
<i>Int1d</i>	JIGGPOSN2 (description="JIGGPOSN2", quantity="1")
<i>Int1d</i>	JIGGFFOFFSET (description="JIGGFFOFFSET", quantity="1")
<i>Int1d</i>	JIGGKP (description="JIGGKP", quantity="1")
<i>Int1d</i>	JIGGKD (description="JIGGKD", quantity="1")
<i>Int1d</i>	JIGGKI (description="JIGGKI", quantity="1")
<i>Int1d</i>	JIGGINTREF (description="JIGGINTREF", quantity="1")
<i>Int1d</i>	JIGGINTLIMIT (description="JIGGINTLIMIT", quantity="1")
<i>Int1d</i>	JIGGFFGAIN (description="JIGGFFGAIN", quantity="1")
<i>Int1d</i>	JIGGFFGAINDIFF (description="JIGGFFGAINDIFF", quantity="1")
<i>Int1d</i>	JIGGDIFFTC1 (description="JIGGDIFFTC1", quantity="1")
<i>Int1d</i>	JIGGDIFFTC2 (description="JIGGDIFFTC2", quantity="1")
<i>Int1d</i>	JIGGRATELIMIT (description="JIGGRATELIMIT", quantity="1")
<i>Int1d</i>	JIGGMOTBEMFGAIN (description="JIGGMOTBEMFGAIN", quantity="1")
<i>Int1d</i>	JIGGMOTRES (description="JIGGMOTRES", quantity="1")
<i>Int1d</i>	JIGGMOTIND (description="JIGGMOTIND", quantity="1")
<i>Int1d</i>	JIGGRATESCALE (description="JIGGRATESCALE", quantity="1")
<i>Int1d</i>	JIGGPOSNSCALE (description="JIGGPOSNSCALE", quantity="1")

<i>Int1d</i>	JIGGBEMFRATFIL1 (description="JIGGBEMFRATFIL1", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL2 (description="JIGGBEMFRATFIL2", quantity="1")
<i>Int1d</i>	JIGGCHOPCOUPLE (description="JIGGCHOPCOUPLE", quantity="1")
<i>Int1d</i>	JIGGPOSNERR (description="JIGGPOSNERR", quantity="1")
<i>Int1d</i>	JIGGSENSSIG (description="JIGGSENSSIG", quantity="1")
<i>Double1d</i>	JIGGDACVAL (description="JIGGDACVAL", quantity="V")
<i>Double1d</i>	JIGGMOTORCURR (description="JIGGMOTORCURR", quantity="A")
<i>Double1d</i>	JIGGMOTORVOLT (description="JIGGMOTORVOLT", quantity="V")
<i>Int1d</i>	MCUPCKT10PARM05 (description="MCUPCKT10PARM05", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM01 (description="MCUPCKT10PARM01", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM02 (description="MCUPCKT10PARM02", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM03 (description="MCUPCKT10PARM03", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM04 (description="MCUPCKT10PARM04", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM01 (description="MCUPCKT12PARM01", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM02 (description="MCUPCKT12PARM02", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM03 (description="MCUPCKT12PARM03", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM04 (description="MCUPCKT12PARM04", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM05 (description="MCUPCKT12PARM05", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM06 (description="MCUPCKT12PARM06", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM01 (description="MCUPCKT14PARM01", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM02 (description="MCUPCKT14PARM02", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM03 (description="MCUPCKT14PARM03", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM04 (description="MCUPCKT14PARM04", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM05 (description="MCUPCKT14PARM05", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM06 (description="MCUPCKT14PARM06", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM07 (description="MCUPCKT14PARM07", quantity="1")

<i>Int1d</i>	MCUPCKT14PARM08 (description="MCUPCKT14PARM08", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM09 (description="MCUPCKT14PARM09", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM10 (description="MCUPCKT14PARM10", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM11 (description="MCUPCKT14PARM11", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM12 (description="MCUPCKT14PARM12", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM13 (description="MCUPCKT14PARM13", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM14 (description="MCUPCKT14PARM14", quantity="1")
<i>Int1d</i>	SCUIFSTAT (description="SCUIFSTAT", quantity="1")
<i>Int1d</i>	SCUIFCTRL (description="SCUIFCTRL", quantity="1")
<i>Int1d</i>	SCUSSDEL (description="SCUSSDEL", quantity="1")
<i>Int1d</i>	SCUSTAT (description="SCUSTAT", quantity="1")
<i>Int1d</i>	SCUTEMPSTAT (description="SCUTEMPSTAT", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT (description="SCUDCDCSTAT", quantity="1")
<i>String1d</i>	PLIABITSTAT (description="PLIABITSTAT", quantity="1")
<i>String1d</i>	SLIABITSTAT (description="SLIABITSTAT", quantity="1")
<i>String1d</i>	MCUBITSTAT (description="MCUBITSTAT", quantity="1")
<i>Double1d</i>	SCUP5V (description="SCUP5V", quantity="V")
<i>Double1d</i>	SCUP9V (description="SCUP9V", quantity="V")
<i>Double1d</i>	SCUM9V (description="SCUM9V", quantity="V")
<i>Double1d</i>	EVHSV (description="EVHSV", quantity="V")
<i>Double1d</i>	SPHSV (description="SPHSV", quantity="V")
<i>Double1d</i>	TCHTRV (description="TCHTRV", quantity="V")
<i>Double1d</i>	SPHTRV (description="SPHTRV", quantity="V")
<i>Double1d</i>	CCUTEMP (description="CCUTEMP", quantity="K")
<i>Double1d</i>	TCUTEMP (description="TCUTEMP", quantity="K")
<i>Double1d</i>	PSUTEMP1 (description="PSUTEMP1", quantity="K")
<i>Int1d</i>	SCUFRAMECONF (description="SCUFRAMECONF", quantity="1")
<i>Int1d</i>	SCUFRAMES (description="SCUFRAMES", quantity="1")
<i>Int1d</i>	SCUFRAMESTAT (description="SCUFRAMESTAT", quantity="1")
<i>Int1d</i>	SCUCTRL (description="SCUCTRL", quantity="1")
<i>Double1d</i>	PCALV (description="PCALV", quantity="V")
<i>Double1d</i>	SCAL2V (description="SCAL2V", quantity="V")
<i>Double1d</i>	SCAL4V (description="SCAL4V", quantity="V")
<i>Double1d</i>	SCUCHT2_5V (description="SCUCHT2_5V", quantity="V")
<i>Double1d</i>	SCUCHTREF (description="SCUCHTREF", quantity="V")
<i>Double1d</i>	SCUCHTGND (description="SCUCHTGND", quantity="V")
<i>Double1d</i>	PCALCURR (description="PCALCURR", quantity="A")

<i>Double1d</i>	SCAL2CURR (description="SCAL2CURR", quantity="A")
<i>Double1d</i>	SCAL4CURR (description="SCAL4CURR", quantity="A")
<i>Double1d</i>	PSUTEMP2 (description="PSUTEMP2", quantity="K")
<i>String1d</i>	SUBKSTAT (description="SUBKSTAT", quantity="1")
<i>Double1d</i>	PUMPHTRTEMP (description="PUMPHTRTEMP", quantity="K")
<i>Double1d</i>	PUMPHSTEMP (description="PUMPHSTEMP", quantity="K")
<i>Double1d</i>	EVAPHSTEMP (description="EVAPHSTEMP", quantity="K")
<i>Double1d</i>	SHUNTTEMP (description="SHUNTTEMP", quantity="K")
<i>Double1d</i>	EMCFILTEMP (description="EMCFILTEMP", quantity="K")
<i>Double1d</i>	SL0TEMP (description="SL0TEMP", quantity="K")
<i>Double1d</i>	PL0TEMP (description="PL0TEMP", quantity="K")
<i>Double1d</i>	OPTTEMP (description="OPTTEMP", quantity="K")
<i>Double1d</i>	BAFTEMP (description="BAFTEMP", quantity="K")
<i>Double1d</i>	BSMIFTEMP (description="BSMIFTEMP", quantity="K")
<i>Double1d</i>	SCAL2TEMP (description="SCAL2TEMP", quantity="K")
<i>Double1d</i>	SCAL4TEMP (description="SCAL4TEMP", quantity="K")
<i>Double1d</i>	SCALTEMP (description="SCALTEMP", quantity="K")
<i>Double1d</i>	SMECIFTEMP (description="SMECIFTEMP", quantity="K")
<i>Double1d</i>	SMECTEMP (description="SMECTEMP", quantity="K")
<i>Double1d</i>	BSMTEMP (description="BSMTEMP", quantity="K")
<i>Double1d</i>	SUBKTEMP (description="SUBKTEMP", quantity="K")
<i>Double1d</i>	SCUTHTREF (description="SCUTHTREF", quantity="V")
<i>Double1d</i>	SCUTHTGND (description="SCUTHTGND", quantity="V")
<i>Int1d</i>	LOSTTCBLOCK (description="LOSTTCBLOCK", quantity="1")
<i>Int1d</i>	LOSTEVBLOCK (description="LOSTEVBLOCK", quantity="1")
<i>Int1d</i>	LOSTHKBLOCK (description="LOSTHKBLOCK", quantity="1")
<i>Int1d</i>	LOSTSDBLOCK (description="LOSTSDBLOCK", quantity="1")
<i>Int1d</i>	LOSTNTBLOCK (description="LOSTNTBLOCK", quantity="1")
<i>Int1d</i>	LS_HP_FIFOSTAT (description="LS_HP_FIFOSTAT", quantity="1")
<i>Int1d</i>	LS_LP_FIFOSTAT (description="LS_LP_FIFOSTAT", quantity="1")
<i>String1d</i>	MCUPCKT10STAT (description="MCUPCKT10STAT", quantity="1")
<i>String1d</i>	MCUPCKT12STAT (description="MCUPCKT12STAT", quantity="1")
<i>String1d</i>	MCUPCKT14STAT (description="MCUPCKT14STAT", quantity="1")
<i>String1d</i>	MCUPCKT15STAT (description="MCUPCKT15STAT", quantity="1")
<i>String1d</i>	MCURAMINTEGRITY (description="MCURAMINTEGRITY", quantity="1")
<i>String1d</i>	MCURAMTSTPROG (description="MCURAMTSTPROG", quantity="1")
<i>String1d</i>	MCURAMTSTDATA (description="MCURAMTSTDATA", quantity="1")
<i>String1d</i>	MCUPROM2RAMCOPY (description="MCUPROM2RAMCOPY", quantity="1")
<i>String1d</i>	MCUBOOTMODE (description="MCUBOOTMODE", quantity="1")

<i>Int1d</i>	SMECSELECTTAB (description="SMECSELECTTAB", quantity="1")
<i>Int1d</i>	CREC_STEP (description="CREC_STEP", quantity="1")
<i>Int1d</i>	PTC_STAGE (description="PTC_STAGE", quantity="1")
<i>Int1d</i>	SCAL_STAGE (description="SCAL_STAGE", quantity="1")
<i>Int1d</i>	JIGGLE_STEP (description="JIGGLE_STEP", quantity="1")
<i>Int1d</i>	LOSTRPBLOCK (description="LOSTRPBLOCK", quantity="1")
<i>Int1d</i>	LIAFAILCOUNT (description="LIAFAILCOUNT", quantity="1")
<i>Int1d</i>	SCANRES (description="SCANRES", quantity="1")
<i>Int1d</i>	VM_SMECSIG1OFF (description="VM_SMECSIG1OFF", quantity="1")
<i>Int1d</i>	VM_SMECSIG2OFF (description="VM_SMECSIG2OFF", quantity="1")
<i>Int1d</i>	TABLE7_09_LWORD (description="TABLE7_09_LWORD", quantity="1")
<i>String1d</i>	PTC_GET_COMMAND (description="PTC_GET_COMMAND", quantity="1")
<i>String1d</i>	SCAL_GET_COMMAND (description="SCAL_GET_COMMAND", quantity="1")
<i>Long1d</i>	TABLE7_12 (description="TABLE7_12", quantity="1")
<i>String1d</i>	HK_MON_STATUS (description="HK_MON_STATUS", quantity="1")
<i>Int1d</i>	CHOPJIGG_DCOUPLE (description="CHOPJIGG_DCOUPLE", quantity="1")
<i>Int1d</i>	HK_02 (description="HK_02", quantity="1")
<i>Int1d</i>	HK_03 (description="HK_03", quantity="1")
<i>Int1d</i>	HK_04 (description="HK_04", quantity="1")
<i>Int1d</i>	HK_05 (description="HK_05", quantity="1")
<i>Int1d</i>	HK_06 (description="HK_06", quantity="1")
<i>Int1d</i>	HK_07 (description="HK_07", quantity="1")
<i>Int1d</i>	HK_08 (description="HK_08", quantity="1")
<i>Int1d</i>	HK_09 (description="HK_09", quantity="1")
<i>Int1d</i>	HK_10 (description="HK_10", quantity="1")
<i>Int1d</i>	HK_11 (description="HK_11", quantity="1")
<i>Int1d</i>	HK_12 (description="HK_12", quantity="1")
<i>Int1d</i>	HK_13 (description="HK_13", quantity="1")
<i>Int1d</i>	HK_14 (description="HK_14", quantity="1")
<i>Int1d</i>	HK_15 (description="HK_15", quantity="1")
<i>Int1d</i>	HK_16 (description="HK_16", quantity="1")
<i>Int1d</i>	HK_17 (description="HK_17", quantity="1")
<i>Int1d</i>	HK_18 (description="HK_18", quantity="1")
<i>Int1d</i>	HK_19 (description="HK_19", quantity="1")
<i>Int1d</i>	HK_20 (description="HK_20", quantity="1")
<i>Int1d</i>	HK_21 (description="HK_21", quantity="1")
<i>Int1d</i>	HK_22 (description="HK_22", quantity="1")

	<i>Int1d</i>	HK_23 (description="HK_23", quantity="1")
		()
	<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
		()
	<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.29. SPIRE Product Level 0.5 - Spectrometer Detector Timeline

<i>product (type="SDT", description="Spectrometer Detector Timeline")</i>	
<i>Metada- ta</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")

StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	jiggId (description="Jiggle ID")
LongParameter	pointNum (description="Pointing number")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
DoubleParameter	biasFreq (description="Bias frequency", quantity="Hz")
StringParameter	elecSide (description="Electronic side", quantity="Hz")
StringParameter	modelName (description="Model name attached to this product", quantity="Hz")
StringParameter	formatVersion (description="Version of product format", quantity="Hz")
StringParameter	missionConfig (description="Mission configuration", quantity="Hz")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")

StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
StringParameter	signalTable (description="Name of the signal table", quantity="km s-1")
LongParameter	maskDead (description="Mask value for dead channel", quantity="km s-1")
LongParameter	maskMaster (description="Mask value for master bit", quantity="km s-1")
LongParameter	maskNoisy (description="Mask value for noisy channel", quantity="km s-1")
LongParameter	maskSlow (description="Mask value for slow channel", quantity="km s-1")
BooleanParameter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="km s-1")
DoubleParameter	ratioTruncatedSSW (description="Maximum ratio of out of range values to total number of values in SSW data", quantity="km s-1")
DoubleParameter	ratioTruncatedSLW (description="Maximum ratio of out of range values to total number of values in SLW data", quantity="km s-1")
LongParameter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="km s-1")
LongParameter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="km s-1")
LongParameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="km s-1")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="km s-1")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="km s-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")

DoubleParameter	slwBiasAmpl (description="SLW bias amplitude", quantity="V")
DoubleParameter	sswBiasAmpl (description="SSW bias amplitude", quantity="V")
DoubleParameter	slwBiasPhase (description="SLW bias phase", quantity="rad")
DoubleParameter	sswBiasPhase (description="SSW bias phase", quantity="rad")
BooleanParameter	rcRollApp (description="RC roll correction applied", quantity="rad")
DoubleParameter	subkTempDrift (description="Drift measured by the SubK temperature probe", quantity="K")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="K")
Columns	
table dataset	(name="voltage", description="Voltages table")
Metadata	
Columns	
DoubleId	sampleTime (description="Sample time", quantity="TAI")
FloatId	SSWR1 (description="SPECFARRAY001", quantity="V")
FloatId	SSWA4 (description="SPECFARRAY002", quantity="V")
FloatId	SSWA3 (description="SPECFARRAY003", quantity="V")
FloatId	SSWA2 (description="SPECFARRAY004", quantity="V")
FloatId	SSWA1 (description="SPECFARRAY005", quantity="V")
FloatId	SSWDP1 (description="SPECFARRAY006", quantity="V")
FloatId	SSWB3 (description="SPECFARRAY007", quantity="V")
FloatId	SSWB2 (description="SPECFARRAY008", quantity="V")
FloatId	SSWB1 (description="SPECFARRAY009", quantity="V")
FloatId	SSWC3 (description="SPECFARRAY010", quantity="V")
FloatId	SSWC2 (description="SPECFARRAY011", quantity="V")
FloatId	SSWC1 (description="SPECFARRAY012", quantity="V")
FloatId	SSWD3 (description="SPECFARRAY013", quantity="V")
FloatId	SSWD2 (description="SPECFARRAY014", quantity="V")
FloatId	SSWD1 (description="SPECFARRAY015", quantity="V")
FloatId	SSWE3 (description="SPECFARRAY016", quantity="V")
FloatId	SSWE2 (description="SPECFARRAY017", quantity="V")
FloatId	SSWE1 (description="SPECFARRAY018", quantity="V")
FloatId	SSWF3 (description="SPECFARRAY019", quantity="V")
FloatId	SSWF2 (description="SPECFARRAY020", quantity="V")
FloatId	SSWF1 (description="SPECFARRAY021", quantity="V")
FloatId	SSWG1 (description="SPECFARRAY022", quantity="V")
FloatId	SSWT1 (description="SPECFARRAY023", quantity="V")
FloatId	SSWG2 (description="SPECFARRAY024", quantity="V")

<i>FloatId</i>	SSWE5 (description="SPECFARRAY025", quantity="V")
<i>FloatId</i>	SSWE4 (description="SPECFARRAY026", quantity="V")
<i>FloatId</i>	SSWD7 (description="SPECFARRAY027", quantity="V")
<i>FloatId</i>	SSWD6 (description="SPECFARRAY028", quantity="V")
<i>FloatId</i>	SSWD5 (description="SPECFARRAY029", quantity="V")
<i>FloatId</i>	SSWD4 (description="SPECFARRAY030", quantity="V")
<i>FloatId</i>	SSWC6 (description="SPECFARRAY031", quantity="V")
<i>FloatId</i>	SSWC5 (description="SPECFARRAY032", quantity="V")
<i>FloatId</i>	SSWC4 (description="SPECFARRAY033", quantity="V")
<i>FloatId</i>	SSWB5 (description="SPECFARRAY034", quantity="V")
<i>FloatId</i>	SSWB4 (description="SPECFARRAY035", quantity="V")
<i>FloatId</i>	SSWT2 (description="SPECFARRAY036", quantity="V")
<i>FloatId</i>	SSWG3 (description="SPECFARRAY037", quantity="V")
<i>FloatId</i>	SSWG4 (description="SPECFARRAY038", quantity="V")
<i>FloatId</i>	SSWDP2 (description="SPECFARRAY039", quantity="V")
<i>FloatId</i>	SSWF5 (description="SPECFARRAY040", quantity="V")
<i>FloatId</i>	SSWF4 (description="SPECFARRAY041", quantity="V")
<i>FloatId</i>	SSWE6 (description="SPECFARRAY042", quantity="V")
<i>FloatId</i>	SLWR1 (description="SPECFARRAY049", quantity="V")
<i>FloatId</i>	SLWT1 (description="SPECFARRAY050", quantity="V")
<i>FloatId</i>	SLWC1 (description="SPECFARRAY051", quantity="V")
<i>FloatId</i>	SLWDP1 (description="SPECFARRAY052", quantity="V")
<i>FloatId</i>	SLWB1 (description="SPECFARRAY053", quantity="V")
<i>FloatId</i>	SLWD1 (description="SPECFARRAY054", quantity="V")
<i>FloatId</i>	SLWE1 (description="SPECFARRAY055", quantity="V")
<i>FloatId</i>	SLWA1 (description="SPECFARRAY056", quantity="V")
<i>FloatId</i>	SLWC2 (description="SPECFARRAY057", quantity="V")
<i>FloatId</i>	SLWD2 (description="SPECFARRAY058", quantity="V")
<i>FloatId</i>	SLWB2 (description="SPECFARRAY059", quantity="V")
<i>FloatId</i>	SLWE2 (description="SPECFARRAY060", quantity="V")
<i>FloatId</i>	SLWA2 (description="SPECFARRAY061", quantity="V")
<i>FloatId</i>	SLWC3 (description="SPECFARRAY062", quantity="V")
<i>FloatId</i>	SLWD3 (description="SPECFARRAY063", quantity="V")
<i>FloatId</i>	SLWB3 (description="SPECFARRAY064", quantity="V")
<i>FloatId</i>	SLWE3 (description="SPECFARRAY065", quantity="V")
<i>FloatId</i>	SLWC4 (description="SPECFARRAY066", quantity="V")
<i>FloatId</i>	SLWDP2 (description="SPECFARRAY067", quantity="V")
<i>FloatId</i>	SLWD4 (description="SPECFARRAY068", quantity="V")
<i>FloatId</i>	SLWC5 (description="SPECFARRAY069", quantity="V")
<i>FloatId</i>	SLWB4 (description="SPECFARRAY070", quantity="V")
<i>FloatId</i>	SLWA3 (description="SPECFARRAY071", quantity="V")
<i>FloatId</i>	SLWT2 (description="SPECFARRAY072", quantity="V")

	()
<i>table dataset</i>	Dataset similar to the one above with (name="resistance", description="Resistances table")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="quality", description="Quality control metric quantities")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="temperature", description="Temperature")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.30. SPIRE Product Level 0.5 - Mechanism Control Unit Engineering Timeline

<i>product (type="MCUET", description="Mechanism Control Unit Engineering Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")

LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
LongParameter	maskMaster (description="Mask value for master bit", quantity="km s-1")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="km s-1")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="km s-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="ms/min")
Columns	
table dataset	(name="signal", description="Signal timelines")

<i>Metadata</i>		
<i>Columns</i>		
<i>Double1d</i>	sampleTime (description="Sample time", quantity="TAI")	
<i>Double1d</i>	SMECENCPOSN (description="MCUENGP01", quantity="cm")	
<i>Int1d</i>	SMECENC SIG1 (description="MCUENGP02", quantity="1")	
<i>Int1d</i>	SMECENC SIG2 (description="MCUENGP03", quantity="1")	
<i>Double1d</i>	SMECENC FINEPOSN (description="MCUENGP04", quantity="cm")	
<i>Int1d</i>	SMECLVDTDCSIG (description="MCUENGP05", quantity="1")	
<i>Int1d</i>	SMECLVDTACSIG (description="MCUENGP06", quantity="1")	
<i>Double1d</i>	SMECMOTORCARR (description="MCUENGP07", quantity="A")	
<i>Double1d</i>	SMECMOTORVOLT (description="MCUENGP08", quantity="V")	
<i>Int1d</i>	SMECENC SIG2AMP (description="MCUENGP09", quantity="1")	
<i>Double1d</i>	SMECS CANPOSNERR (description="MCUENGP10", quantity="cm")	
<i>Int1d</i>	SMECENC SIG1AMP (description="MCUENGP11", quantity="1")	
<i>Int1d</i>	SMECMEANSPEED (description="MCUENGP12", quantity="1")	
<i>Int1d</i>	SMECDACVAL (description="MCUENGP13", quantity="1")	
<i>Double1d</i>	SMECLVDTPOSN (description="MCUENGP14", quantity="cm")	
<i>Long1d</i>	transmTime (description="MCUENGFAMETIME", quantity="1")	
	()	
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")	
	()	
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")	

5.2.31. SPIRE Product Level 0.5 - Spectrometer Offset Timeline

<i>product (type="SOT", description="Spectrometer Offset Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")

DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
LongParameter	maskMaster (description="Mask value for master bit", quantity="km s-1")

DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="km s-1")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="km s-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="ms/min")
Columns	
table dataset	(name="signal", description="Signal timelines")
Metadata	
Columns	
DoubleId	sampleTime (description="Sample time", quantity="TAI")
IntId	SSWR1 (description="SPECOFF001", quantity="1")
IntId	SSWA4 (description="SPECOFF002", quantity="1")
IntId	SSWA3 (description="SPECOFF003", quantity="1")
IntId	SSWA2 (description="SPECOFF004", quantity="1")
IntId	SSWA1 (description="SPECOFF005", quantity="1")
IntId	SSWDP1 (description="SPECOFF006", quantity="1")
IntId	SSWB3 (description="SPECOFF007", quantity="1")
IntId	SSWB2 (description="SPECOFF008", quantity="1")
IntId	SSWB1 (description="SPECOFF009", quantity="1")
IntId	SSWC3 (description="SPECOFF010", quantity="1")
IntId	SSWC2 (description="SPECOFF011", quantity="1")
IntId	SSWC1 (description="SPECOFF012", quantity="1")
IntId	SSWD3 (description="SPECOFF013", quantity="1")
IntId	SSWD2 (description="SPECOFF014", quantity="1")
IntId	SSWD1 (description="SPECOFF015", quantity="1")
IntId	SSWE3 (description="SPECOFF016", quantity="1")
IntId	SSWE2 (description="SPECOFF017", quantity="1")
IntId	SSWE1 (description="SPECOFF018", quantity="1")
IntId	SSWF3 (description="SPECOFF019", quantity="1")
IntId	SSWF2 (description="SPECOFF020", quantity="1")
IntId	SSWF1 (description="SPECOFF021", quantity="1")
IntId	SSWG1 (description="SPECOFF022", quantity="1")
IntId	SSWT1 (description="SPECOFF023", quantity="1")
IntId	SSWG2 (description="SPECOFF024", quantity="1")
IntId	SSWE5 (description="SPECOFF025", quantity="1")
IntId	SSWE4 (description="SPECOFF026", quantity="1")
IntId	SSWD7 (description="SPECOFF027", quantity="1")
IntId	SSWD6 (description="SPECOFF028", quantity="1")

<i>Int1d</i>	SSWD5 (description="SPECOFF029", quantity="1")
<i>Int1d</i>	SSWD4 (description="SPECOFF030", quantity="1")
<i>Int1d</i>	SSWC6 (description="SPECOFF031", quantity="1")
<i>Int1d</i>	SSWC5 (description="SPECOFF032", quantity="1")
<i>Int1d</i>	SSWC4 (description="SPECOFF033", quantity="1")
<i>Int1d</i>	SSWB5 (description="SPECOFF034", quantity="1")
<i>Int1d</i>	SSWB4 (description="SPECOFF035", quantity="1")
<i>Int1d</i>	SSWT2 (description="SPECOFF036", quantity="1")
<i>Int1d</i>	SSWG3 (description="SPECOFF037", quantity="1")
<i>Int1d</i>	SSWG4 (description="SPECOFF038", quantity="1")
<i>Int1d</i>	SSWDP2 (description="SPECOFF039", quantity="1")
<i>Int1d</i>	SSWF5 (description="SPECOFF040", quantity="1")
<i>Int1d</i>	SSWF4 (description="SPECOFF041", quantity="1")
<i>Int1d</i>	SSWE6 (description="SPECOFF042", quantity="1")
<i>Int1d</i>	SSWN1 (description="SPECOFF043", quantity="1")
<i>Int1d</i>	SSWN2 (description="SPECOFF044", quantity="1")
<i>Int1d</i>	SSWN3 (description="SPECOFF045", quantity="1")
<i>Int1d</i>	SSWN4 (description="SPECOFF046", quantity="1")
<i>Int1d</i>	SSWN5 (description="SPECOFF047", quantity="1")
<i>Int1d</i>	SSWN6 (description="SPECOFF048", quantity="1")
<i>Int1d</i>	SLWR1 (description="SPECOFF049", quantity="1")
<i>Int1d</i>	SLWT1 (description="SPECOFF050", quantity="1")
<i>Int1d</i>	SLWC1 (description="SPECOFF051", quantity="1")
<i>Int1d</i>	SLWDP1 (description="SPECOFF052", quantity="1")
<i>Int1d</i>	SLWB1 (description="SPECOFF053", quantity="1")
<i>Int1d</i>	SLWD1 (description="SPECOFF054", quantity="1")
<i>Int1d</i>	SLWE1 (description="SPECOFF055", quantity="1")
<i>Int1d</i>	SLWA1 (description="SPECOFF056", quantity="1")
<i>Int1d</i>	SLWC2 (description="SPECOFF057", quantity="1")
<i>Int1d</i>	SLWD2 (description="SPECOFF058", quantity="1")
<i>Int1d</i>	SLWB2 (description="SPECOFF059", quantity="1")
<i>Int1d</i>	SLWE2 (description="SPECOFF060", quantity="1")
<i>Int1d</i>	SLWA2 (description="SPECOFF061", quantity="1")
<i>Int1d</i>	SLWC3 (description="SPECOFF062", quantity="1")
<i>Int1d</i>	SLWD3 (description="SPECOFF063", quantity="1")
<i>Int1d</i>	SLWB3 (description="SPECOFF064", quantity="1")
<i>Int1d</i>	SLWE3 (description="SPECOFF065", quantity="1")
<i>Int1d</i>	SLWC4 (description="SPECOFF066", quantity="1")
<i>Int1d</i>	SLWDP2 (description="SPECOFF067", quantity="1")
<i>Int1d</i>	SLWD4 (description="SPECOFF068", quantity="1")
<i>Int1d</i>	SLWC5 (description="SPECOFF069", quantity="1")
<i>Int1d</i>	SLWB4 (description="SPECOFF070", quantity="1")

<i>Int1d</i>	SLWA3 (description="SPECOFF071", quantity="1")
<i>Int1d</i>	SLWT2 (description="SPECOFF072", quantity="1")
<i>Int1d</i>	adcFlags (description="SPECOFFADCFLGS", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.32. SPIRE Product Level 0.5 - Beam Steering Mirror Timeline

<i>product (type="BSMT", description="Beam Steering Mirror Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")

DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
LongParameter	maskMaster (description="Mask value for master bit", quantity="km s-1")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="km s-1")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="km s-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="ms/min")
Columns	
table dataset	(name="signal", description="Signal timelines")
Metadata	
Columns	
DoubleId	sampleTime (description="Sample time", quantity="TAI")
IntId	chopSens (description="BSMCHOPSENSSIG", quantity="1")
IntId	chopMotorCurr (description="BSMCHOPMOTORCURRE", quantity="1")
IntId	chopMotorVolt (description="BSMCHOPMOTORVOLT", quantity="1")

	<i>Int1d</i>	jiggSens (description="BSMJIGGSENSSIG", quantity="1")
	<i>Int1d</i>	jiggMotorCurr (description="BSMJIGGMOTORCURR", quantity="1")
	<i>Int1d</i>	jiggMotorVolt (description="BSMJIGGMOTORVOLT", quantity="1")
	<i>Long1d</i>	transmTime (description="BSMTTIME", quantity="1")
		()
	<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
		()
	<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.33. SPIRE Product Level 0.5 - Spectrometer Mechanism Timeline

<i>product (type="SMECT", description="Spectrometer Mechanism Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")

StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
LongParameter	maskMaster (description="Mask value for master bit", quantity="km s-1")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="km s-1")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="km s-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="ms/min")
<i>Columns</i>	
<i>table dataset</i>	(name="signal", description="Signal timelines")
<i>Metadata</i>	
<i>Columns</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>DoubleId</i>	encoderCoarse (description="SMECSELENCPOSN", quantity="cm")
<i>DoubleId</i>	encoderFine (description="SMECSELENCFINEPOSN", quantity="cm")

<i>DoubleId</i>	lvdtposn (description="SMECSELLVDTPOSN", quantity="cm")
<i>DoubleId</i>	posnError (description="SMECSELPOSNERROR", quantity="cm")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.34. SPIRE Product Level 0.5 - Subsystem Control Unit Timeline

<i>product (type="SCUT", description="Subsystem Control Unit Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")

StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
LongParameter	maskMaster (description="Mask value for master bit", quantity="km s-1")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="km s-1")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="km s-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="ms/min")
Columns	
table dataset	(name="signal", description="Signal timelines")
Metadata	
Columns	
DoubleId	sampleTime (description="Sample time", quantity="TAI")
DoubleId	pumpHTemp (description="SCUPHTEMP", quantity="K")
DoubleId	pumpHSTemp (description="SCUPHSTEMP", quantity="K")
DoubleId	evapHSTemp (description="SCUEVHSTEMP", quantity="K")
DoubleId	shuntTemp (description="CUSHUNTTEMP", quantity="K")

<i>Double1d</i>	emcFilTemp (description="SCUEMCFILTEMP", quantity="K")
<i>Double1d</i>	specL0Temp (description="SCUSL0TEMP", quantity="K")
<i>Double1d</i>	photL0Temp (description="SCUPL0TEMP", quantity="K")
<i>Double1d</i>	osbTemp (description="SCUOPTTEMP", quantity="K")
<i>Double1d</i>	fpuBaffTemp (description="SCUBAFTEMP", quantity="K")
<i>Double1d</i>	bsmIntTemp (description="SCUBSMIFTEMP", quantity="K")
<i>Double1d</i>	scal2Temp (description="SCUSCAL2TEMP", quantity="K")
<i>Double1d</i>	scal4Temp (description="SCUSCAL4TEMP", quantity="K")
<i>Double1d</i>	scalFlanTemp (description="SCUSCALTEMP", quantity="K")
<i>Double1d</i>	smecIntTemp (description="SCUSMECIFTEMP", quantity="K")
<i>Double1d</i>	smecTemp (description="SCUSMECTEMP", quantity="K")
<i>Double1d</i>	bsmTemp (description="SCUBSMTEMP", quantity="K")
<i>Double1d</i>	ceSubKTemp (description="SCUSUBKTEMP", quantity="K")
<i>Double1d</i>	tchVolt (description="SCUTCHTRV", quantity="V")
<i>Double1d</i>	pcalCurr (description="SCUPCALCURR", quantity="A")
<i>Double1d</i>	pcalVolt (description="SCUPCALV", quantity="V")
<i>Double1d</i>	scal2Curr (description="SCUSCAL2CURR", quantity="A")
<i>Double1d</i>	scal2Volt (description="SCUSCAL2V", quantity="V")
<i>Double1d</i>	scal4Curr (description="SCUSCAL4CURR", quantity="A")
<i>Double1d</i>	scal4Volt (description="SCUSCAL4V", quantity="V")
<i>Int1d</i>	adcFlags (description="SCUADC_FLAGS", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.35. SPIRE Product Level 0.5 - Nominal House Keeping Timeline

<i>product (type="NHKT", description="Nominal House Keeping Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")

LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")

DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="s")
Columns	
table dataset	(name="signal", description="Signal timelines")
Metadata	
Columns	
DoubleId	sampleTime (description="Sample time", quantity="TAI")
StringId	NHK_VERS (description="NHK_VERS", quantity="1")
StringId	NHK_TYPE (description="NHK_TYPE", quantity="1")
StringId	NHK_DFHFLAG (description="NHK_DFHFLAG", quantity="1")
ShortId	NHK_APID (description="NHK_APID", quantity="1")
StringId	NHK_SEGFLAG (description="NHK_SEGFLAG", quantity="1")
ShortId	NHK_SSC (description="NHK_SSC", quantity="1")
IntId	NHK_PKTLEN (description="NHK_PKTLEN", quantity="1")
StringId	NHK_PUSVERS (description="NHK_PUSVERS", quantity="1")
ShortId	NHK_PKTTYPE (description="NHK_PKTTYPE", quantity="1")
ShortId	NHK_PKTSTYPE (description="NHK_PKTSTYPE", quantity="1")
LongId	NHK_PKTCTIME (description="NHK_PKTCTIME", quantity="1")
IntId	NHK_PKTFTIME (description="NHK_PKTFTIME", quantity="1")
StringId	BBFULLTYPE (description="BBFULLTYPE", quantity="1")
StringId	MODE (description="MODE", quantity="1")
IntId	STEP (description="STEP", quantity="1")
StringId	THSK (description="THSK", quantity="1")
LongId	TRESET (description="TRESET", quantity="1")
IntId	TCRECV (description="TCRECV", quantity="1")
IntId	TCRECN (description="TCRECN", quantity="1")
IntId	TCEXEC (description="TCEXEC", quantity="1")
IntId	TCEXEN (description="TCEXEN", quantity="1")
IntId	TM1N (description="TM1N", quantity="1")
IntId	TM2N (description="TM2N", quantity="1")
IntId	TM3N (description="TM3N", quantity="1")
IntId	TM4N (description="TM4N", quantity="1")
IntId	TM5N (description="TM5N", quantity="1")
IntId	DCUFRAMECNT (description="DCUFRAMECNT", quantity="1")
IntId	MCUFRAMECNT (description="MCUFRAMECNT", quantity="1")
IntId	SCUFRAMECNT (description="SCUFRAMECNT", quantity="1")
StringId	TSYNC (description="TSYNC", quantity="1")
StringId	TDIFF (description="TDIFF", quantity="1")
StringId	MEMSTAT_1 (description="MEMSTAT_1", quantity="1")
StringId	MEMSTAT_2 (description="MEMSTAT_2", quantity="1")

<i>String1d</i>	MEMSTAT_3 (description="MEMSTAT_3", quantity="1")
<i>String1d</i>	MONSTAT (description="MONSTAT", quantity="1")
<i>String1d</i>	DCULSIFSTAT (description="DCULSIFSTAT", quantity="1")
<i>String1d</i>	DCUHSIFMODE (description="DCUHSIFMODE", quantity="1")
<i>String1d</i>	MCULSIFSTAT (description="MCULSIFSTAT", quantity="1")
<i>String1d</i>	MCUHSIFMODE (description="MCUHSIFMODE", quantity="1")
<i>String1d</i>	SCULSIFSTAT (description="SCULSIFSTAT", quantity="1")
<i>String1d</i>	SCUHSMODE (description="SCUHSMODE", quantity="1")
<i>Int1d</i>	BBCOUNT (description="BBCOUNT", quantity="1")
<i>Int1d</i>	VMSTAT (description="VMSTAT", quantity="1")
<i>Int1d</i>	VM1STAT (description="VM1STAT", quantity="1")
<i>Int1d</i>	VM2STAT (description="VM2STAT", quantity="1")
<i>Int1d</i>	VM3STAT (description="VM3STAT", quantity="1")
<i>Int1d</i>	VMSTATAFX (description="VMSTATAFX", quantity="1")
<i>Int1d</i>	SD_VALUE0 (description="SD_VALUE0", quantity="1")
<i>Int1d</i>	SD_ADDRESS0 (description="SD_ADDRESS0", quantity="1")
<i>Int1d</i>	SD_VALUE1 (description="SD_VALUE1", quantity="1")
<i>Int1d</i>	SD_ADDRESS1 (description="SD_ADDRESS1", quantity="1")
<i>Int1d</i>	SD_VALUE2 (description="SD_VALUE2", quantity="1")
<i>Int1d</i>	SD_ADDRESS2 (description="SD_ADDRESS2", quantity="1")
<i>Int1d</i>	SD_VALUE3 (description="SD_VALUE3", quantity="1")
<i>Int1d</i>	SD_ADDRESS3 (description="SD_ADDRESS3", quantity="1")
<i>Double1d</i>	DPUP5V (description="DPUP5V", quantity="V")
<i>Double1d</i>	DPUP15V (description="DPUP15V", quantity="V")
<i>Double1d</i>	DPUM15V (description="DPUM15V", quantity="V")
<i>Double1d</i>	DPUTEMP (description="DPUTEMP", quantity="K")
<i>Int1d</i>	CPULOAD (description="CPULOAD", quantity="1")
<i>Long1d</i>	LSLOAD (description="LSLOAD", quantity="1")
<i>Double1d</i>	DPUP2_5V (description="DPUP2_5V", quantity="V")
<i>String1d</i>	DCUDATAMODE (description="DCUDATAMODE", quantity="1")
<i>String1d</i>	DCUDATAFRMS (description="DCUDATAFRMS", quantity="1")
<i>String1d</i>	DCUDATASTAT (description="DCUDATASTAT", quantity="1")
<i>Int1d</i>	PHOTBIASDIV (description="PHOTBIASDIV", quantity="1")
<i>String1d</i>	PHOTBIASMODE (description="PHOTBIASMODE", quantity="1")
<i>Int1d</i>	PHOTMCLKDIV (description="PHOTMCLKDIV", quantity="1")
<i>Double1d</i>	PSWBIAS (description="PSWBIAS", quantity="V")
<i>Double1d</i>	PMWBIAS (description="PMWBIAS", quantity="V")
<i>Double1d</i>	PLWBIAS (description="PLWBIAS", quantity="V")
<i>Double1d</i>	TCBIAS (description="TCBIAS", quantity="V")
<i>Double1d</i>	PSWPHASE (description="PSWPHASE", quantity="deg")
<i>Double1d</i>	PMWPHASE (description="PMWPHASE", quantity="deg")
<i>Double1d</i>	PLWPHASE (description="PLWPHASE", quantity="deg")

<i>DoubleId</i>	TCPHASE (description="TCPHASE", quantity="deg")
<i>IntId</i>	PSWJFETSTAT (description="PSWJFETSTAT", quantity="1")
<i>StringId</i>	PSW_VDD_JFET1 (description="PSW_VDD_JFET1", quantity="1")
<i>StringId</i>	PSW_VDD_JFET2 (description="PSW_VDD_JFET2", quantity="1")
<i>StringId</i>	PSW_VDD_JFET3 (description="PSW_VDD_JFET3", quantity="1")
<i>StringId</i>	PSW_VDD_JFET4 (description="PSW_VDD_JFET4", quantity="1")
<i>StringId</i>	PSW_VDD_JFET5 (description="PSW_VDD_JFET5", quantity="1")
<i>StringId</i>	PSW_VDD_JFET6 (description="PSW_VDD_JFET6", quantity="1")
<i>IntId</i>	PMLWJFETSTAT (description="PMLWJFETSTAT", quantity="1")
<i>StringId</i>	PMW_VDD_JFET1 (description="PMW_VDD_JFET1", quantity="1")
<i>StringId</i>	PMW_VDD_JFET2 (description="PMW_VDD_JFET2", quantity="1")
<i>StringId</i>	PMW_VDD_JFET3 (description="PMW_VDD_JFET3", quantity="1")
<i>StringId</i>	PMW_VDD_JFET4 (description="PMW_VDD_JFET4", quantity="1")
<i>StringId</i>	PLW_VDD_JFET1 (description="PLW_VDD_JFET1", quantity="1")
<i>StringId</i>	PLW_VDD_JFET2 (description="PLW_VDD_JFET2", quantity="1")
<i>StringId</i>	TC_VDD_JFET (description="TC_VDD_JFET", quantity="1")
<i>DoubleId</i>	PSWJFET1V (description="PSWJFET1V", quantity="V")
<i>DoubleId</i>	PSWJFET2V (description="PSWJFET2V", quantity="V")
<i>DoubleId</i>	PSWJFET3V (description="PSWJFET3V", quantity="V")
<i>DoubleId</i>	PSWJFET4V (description="PSWJFET4V", quantity="V")
<i>DoubleId</i>	PSWJFET5V (description="PSWJFET5V", quantity="V")
<i>DoubleId</i>	PSWJFET6V (description="PSWJFET6V", quantity="V")
<i>DoubleId</i>	PMWJFET1V (description="PMWJFET1V", quantity="V")
<i>DoubleId</i>	PMWJFET2V (description="PMWJFET2V", quantity="V")
<i>DoubleId</i>	PMWJFET3V (description="PMWJFET3V", quantity="V")
<i>DoubleId</i>	PMWJFET4V (description="PMWJFET4V", quantity="V")
<i>DoubleId</i>	PLWJFET1V (description="PLWJFET1V", quantity="V")
<i>DoubleId</i>	PLWJFET2V (description="PLWJFET2V", quantity="V")
<i>DoubleId</i>	PHOTHTRV (description="PHOTHTRV", quantity="V")
<i>DoubleId</i>	TCJFETV (description="TCJFETV", quantity="V")
<i>IntId</i>	SPECBIASDIV (description="SPECBIASDIV", quantity="1")
<i>StringId</i>	SPECBIASMODE (description="SPECBIASMODE", quantity="1")
<i>IntId</i>	SPECMCLKDIV (description="SPECMCLKDIV", quantity="1")
<i>DoubleId</i>	SSWBIAS (description="SSWBIAS", quantity="V")
<i>DoubleId</i>	SLWBIAS (description="SLWBIAS", quantity="V")
<i>DoubleId</i>	SSWPHASE (description="SSWPHASE", quantity="deg")
<i>DoubleId</i>	SLWPHASE (description="SLWPHASE", quantity="deg")
<i>IntId</i>	SPECJFETSTAT (description="SPECJFETSTAT", quantity="1")
<i>StringId</i>	SLW_VDD_JFET1 (description="SLW_VDD_JFET1", quantity="1")
<i>StringId</i>	SSW_VDD_JFET1 (description="SSW_VDD_JFET1", quantity="1")
<i>StringId</i>	SSW_VDD_JFET2 (description="SSW_VDD_JFET2", quantity="1")
<i>DoubleId</i>	SSWJFET1V (description="SSWJFET1V", quantity="V")

<i>Double1d</i>	SSWJFET2V (description="SSWJFET2V", quantity="V")
<i>Double1d</i>	SLWJFET1V (description="SLWJFET1V", quantity="V")
<i>Double1d</i>	SPECHTRV (description="SPECHTRV", quantity="V")
<i>Double1d</i>	TC1TEMP (description="TC1TEMP", quantity="V")
<i>Double1d</i>	TC2TEMP (description="TC2TEMP", quantity="V")
<i>Double1d</i>	TC3TEMP (description="TC3TEMP", quantity="V")
<i>Double1d</i>	BIASP5V (description="BIASP5V", quantity="V")
<i>Double1d</i>	BIASP9V (description="BIASP9V", quantity="V")
<i>Double1d</i>	BIASM9V (description="BIASM9V", quantity="V")
<i>Int1d</i>	OBSVER (description="OBSVER", quantity="1")
<i>Short1d</i>	OBSVER1 (description="OBSVER1", quantity="1")
<i>Short1d</i>	OBSVER2 (description="OBSVER2", quantity="1")
<i>String1d</i>	OBSVER3 (description="OBSVER3", quantity="1")
<i>String1d</i>	TMMODE (description="TMMODE", quantity="1")
<i>Int1d</i>	FIFO_DF_FLAG (description="FIFO_DF_FLAG", quantity="1")
<i>Double1d</i>	PLIAP5V (description="PLIAP5V", quantity="V")
<i>Double1d</i>	PLIAP9V (description="PLIAP9V", quantity="V")
<i>Double1d</i>	PLIAM9V (description="PLIAM9V", quantity="V")
<i>Double1d</i>	SLIAP5V (description="SLIAP5V", quantity="V")
<i>Double1d</i>	SLIAP9V (description="SLIAP9V", quantity="V")
<i>Double1d</i>	SLIAM9V (description="SLIAM9V", quantity="V")
<i>Double1d</i>	LIAP9TEMP (description="LIAP9TEMP", quantity="K")
<i>Double1d</i>	LIAP8TEMP (description="LIAP8TEMP", quantity="K")
<i>Double1d</i>	LIAP7TEMP (description="LIAP7TEMP", quantity="K")
<i>Double1d</i>	LIAP6TEMP (description="LIAP6TEMP", quantity="K")
<i>Double1d</i>	LIAP5TEMP (description="LIAP5TEMP", quantity="K")
<i>Double1d</i>	LIAP4TEMP (description="LIAP4TEMP", quantity="K")
<i>Double1d</i>	LIAP3TEMP (description="LIAP3TEMP", quantity="K")
<i>Double1d</i>	LIAP2TEMP (description="LIAP2TEMP", quantity="K")
<i>Double1d</i>	LIAP1TEMP (description="LIAP1TEMP", quantity="K")
<i>Double1d</i>	LIAS1TEMP (description="LIAS1TEMP", quantity="K")
<i>Double1d</i>	LIAS2TEMP (description="LIAS2TEMP", quantity="K")
<i>Double1d</i>	LIAS3TEMP (description="LIAS3TEMP", quantity="K")
<i>Double1d</i>	BIASTEMP (description="BIASTEMP", quantity="K")
<i>Double1d</i>	DAQTEMP (description="DAQTEMP", quantity="K")
<i>Int1d</i>	LIASSTAT (description="LIASSTAT", quantity="1")
<i>String1d</i>	LIAP1STAT (description="LIAP1STAT", quantity="1")
<i>String1d</i>	LIAP2STAT (description="LIAP2STAT", quantity="1")
<i>String1d</i>	LIAP3STAT (description="LIAP3STAT", quantity="1")
<i>String1d</i>	LIAP4STAT (description="LIAP4STAT", quantity="1")
<i>String1d</i>	LIAP5STAT (description="LIAP5STAT", quantity="1")
<i>String1d</i>	LIAP6STAT (description="LIAP6STAT", quantity="1")

<i>String1d</i>	LIAP7STAT (description="LIAP7STAT", quantity="1")
<i>String1d</i>	LIAP8STAT (description="LIAP8STAT", quantity="1")
<i>String1d</i>	LIAP9STAT (description="LIAP9STAT", quantity="1")
<i>String1d</i>	LIAS1STAT (description="LIAS1STAT", quantity="1")
<i>String1d</i>	LIAS2STAT (description="LIAS2STAT", quantity="1")
<i>String1d</i>	LIAS3STAT (description="LIAS3STAT", quantity="1")
<i>Int1d</i>	MCUIFSTAT (description="MCUIFSTAT", quantity="1")
<i>Int1d</i>	MCUIFCTRL (description="MCUIFCTRL", quantity="1")
<i>Int1d</i>	MCUSSDEL (description="MCUSSDEL", quantity="1")
<i>Double1d</i>	MCUP5V (description="MCUP5V", quantity="V")
<i>Double1d</i>	MCUP14V (description="MCUP14V", quantity="V")
<i>Double1d</i>	MCUM14V (description="MCUM14V", quantity="V")
<i>Double1d</i>	MCUP15V (description="MCUP15V", quantity="V")
<i>Double1d</i>	MCUM15V (description="MCUM15V", quantity="V")
<i>Double1d</i>	MCUMACTEMP (description="MCUMACTEMP", quantity="K")
<i>Double1d</i>	MCUSMECTEMP (description="MCUSMECTEMP", quantity="K")
<i>Double1d</i>	MCUBSMTEMP (description="MCUBSMTEMP", quantity="K")
<i>String1d</i>	MCUERR (description="MCUERR", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTLSW (description="MCUSCHEDCNTLSW", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTMSW (description="MCUSCHEDCNTMSW", quantity="1")
<i>Int1d</i>	MCUTM10TSAMPLE (description="MCUTM10TSAMPLE", quantity="1")
<i>String1d</i>	MCUFRAMESTART (description="MCUFRAMESTART", quantity="1")
<i>Int1d</i>	MCUTM12TSAMPLE (description="MCUTM12TSAMPLE", quantity="1")
<i>Int1d</i>	MCUFRAMES (description="MCUFRAMES", quantity="1")
<i>Int1d</i>	MCUTM14TSAMPLE (description="MCUTM14TSAMPLE", quantity="1")
<i>Int1d</i>	MCUTM15TSAMPLE (description="MCUTM15TSAMPLE", quantity="1")
<i>String1d</i>	MCUTMSTATUS (description="MCUTMSTATUS", quantity="1")
<i>String1d</i>	MCUBOOTSTAT (description="MCUBOOTSTAT", quantity="1")
<i>Int1d</i>	MCUDLOADCONF (description="MCUDLOADCONF", quantity="1")
<i>Int1d</i>	SMECLOSTCOUNT (description="SMECLOSTCOUNT", quantity="1")
<i>Int1d</i>	SMECENCPWR (description="SMECENCPWR", quantity="1")
<i>String1d</i>	SMECLVDPWR (description="SMECLVDPWR", quantity="1")
<i>String1d</i>	SMECLATCHSTAT (description="SMECLATCHSTAT", quantity="1")
<i>String1d</i>	SMECLOOPMODE (description="SMECLOOPMODE", quantity="1")
<i>Double1d</i>	SCANSTART (description="SCANSTART", quantity="cm")
<i>Double1d</i>	SCANEND (description="SCANEND", quantity="cm")
<i>Int1d</i>	SCANFSPEED (description="SCANFSPEED", quantity="1")

<i>Int1d</i>	SCANS (description="SCANS", quantity="1")
<i>String1d</i>	SCANMODE (description="SCANMODE", quantity="1")
<i>Int1d</i>	SMECKP (description="SMECKP", quantity="1")
<i>Int1d</i>	SMECKD (description="SMECKD", quantity="1")
<i>Int1d</i>	SMECDFILT (description="SMECDFILT", quantity="1")
<i>Int1d</i>	SMECKI (description="SMECKI", quantity="1")
<i>Int1d</i>	SMECINTLIMIT (description="SMECINTLIMIT", quantity="1")
<i>Int1d</i>	SMECINTTHRESH (description="SMECINTTHRESH", quantity="1")
<i>Int1d</i>	SMECRATELIMIT (description="SMECRATELIMIT", quantity="1")
<i>Int1d</i>	SMECDFILT2 (description="SMECDFILT2", quantity="1")
<i>Int1d</i>	SMECFFGAIN (description="SMECFFGAIN", quantity="1")
<i>Int1d</i>	SMECFFOFFSET (description="SMECFFOFFSET", quantity="1")
<i>Int1d</i>	SCANRSPEED (description="SCANRSPEED", quantity="1")
<i>Int1d</i>	SMECBEMFGAIN (description="SMECBEMFGAIN", quantity="1")
<i>Int1d</i>	SMECMOTORRES (description="SMECMOTORRES", quantity="1")
<i>Int1d</i>	SMECMOTORBEMF (description="SMECMOTORBEMF", quantity="1")
<i>Int1d</i>	SMECRATESCALE (description="SMECRATESCALE", quantity="1")
<i>Double1d</i>	SMECLVDTOFFSET (description="SMECLVDTOFFSET", quantity="cm")
<i>Double1d</i>	SMECLVDTSCALE (description="SMECLVDTSCALE", quantity="cm")
<i>String1d</i>	SMECSTAT (description="SMECSTAT", quantity="1")
<i>String1d</i>	SMECFLAG (description="SMECFLAG", quantity="1")
<i>String1d</i>	SMECLVDTSIGN (description="SMECLVDTSIGN", quantity="1")
<i>String1d</i>	SMECINIT (description="SMECINIT", quantity="1")
<i>String1d</i>	SMECSCANDIR (description="SMECSCANDIR", quantity="1")
<i>Short1d</i>	SMECSCANCNT (description="SMECSCANCNT", quantity="1")
<i>Double1d</i>	SMECENCPOSN (description="SMECENCPOSN", quantity="cm")
<i>Int1d</i>	SMECENC SIG1 (description="SMECENC SIG1", quantity="1")
<i>Int1d</i>	SMECENC SIG2 (description="SMECENC SIG2", quantity="1")
<i>Int1d</i>	SMECENC SIG3 (description="SMECENC SIG3", quantity="1")
<i>Double1d</i>	SMECLVDTPOSN (description="SMECLVDTPOSN", quantity="cm")
<i>Int1d</i>	SMECLVDTACSIG (description="SMECLVDTACSIG", quantity="1")
<i>Int1d</i>	SMECLVDTDCSIG (description="SMECLVDTDCSIG", quantity="1")
<i>Double1d</i>	SMECTRAJPOSN (description="SMECTRAJPOSN", quantity="cm")
<i>Int1d</i>	SMECDACVAL (description="SMECDACVAL", quantity="1")
<i>Double1d</i>	SMECPOSNDELTA (description="SMECPOSNDELTA", quantity="cm")
<i>Double1d</i>	SMECENC FINEPOSN (description="SMECENC FINEPOSN", quantity="cm")
<i>Int1d</i>	SMECMEANSPEED (description="SMECMEANSPEED", quantity="1")

<i>Double1d</i>	SMECSCANPOSNERR (description="SMECSCANPOSNERR", quantity="cm")
<i>Double1d</i>	SMECMOTORCURR (description="SMECMOTORCURR", quantity="A")
<i>Double1d</i>	SMECMOTORVOLT (description="SMECMOTORVOLT", quantity="V")
<i>Int1d</i>	SMECENC SIG1AMP (description="SMECENC SIG1AMP", quantity="1")
<i>Int1d</i>	SMECENC SIG1OFF (description="SMECENC SIG1OFF", quantity="1")
<i>Int1d</i>	SMECENC SIG2AMP (description="SMECENC SIG2AMP", quantity="1")
<i>Int1d</i>	SMECENC SIG2OFF (description="SMECENC SIG2OFF", quantity="1")
<i>Int1d</i>	SMECENC SIG3AMP (description="SMECENC SIG3AMP", quantity="1")
<i>Int1d</i>	SMECENC SIG3OFF (description="SMECENC SIG3OFF", quantity="1")
<i>String1d</i>	CHOPSENSPWR (description="CHOPSENSPWR", quantity="1")
<i>String1d</i>	CHOPLOOPMODE (description="CHOPLOOPMODE", quantity="1")
<i>Int1d</i>	CHOPPOSN (description="CHOPPOSN", quantity="1")
<i>Int1d</i>	CHOPPOSN2 (description="CHOPPOSN2", quantity="1")
<i>String1d</i>	BSMMODE (description="BSMMODE", quantity="1")
<i>Int1d</i>	CHOPFFOFFSET (description="CHOPFFOFFSET", quantity="1")
<i>Int1d</i>	CHOPKP (description="CHOPKP", quantity="1")
<i>Int1d</i>	CHOPKD (description="CHOPKD", quantity="1")
<i>Int1d</i>	CHOPKI (description="CHOPKI", quantity="1")
<i>Int1d</i>	CHOPINTREF (description="CHOPINTREF", quantity="1")
<i>Int1d</i>	CHOPINTLIMIT (description="CHOPINTLIMIT", quantity="1")
<i>Int1d</i>	CHOPFFGAIN (description="CHOPFFGAIN", quantity="1")
<i>Int1d</i>	CHOPFFGAINDIFF (description="CHOPFFGAINDIFF", quantity="1")
<i>Int1d</i>	CHOPDIFFTC1 (description="CHOPDIFFTC1", quantity="1")
<i>Int1d</i>	CHOPDIFFTC2 (description="CHOPDIFFTC2", quantity="1")
<i>Int1d</i>	CHOPRATELIMIT (description="CHOPRATELIMIT", quantity="1")
<i>Int1d</i>	CHOPMOTBEMFGAIN (description="CHOPMOTBEMFGAIN", quantity="1")
<i>Int1d</i>	CHOPMOTRES (description="CHOPMOTRES", quantity="1")
<i>Int1d</i>	CHOPMOTIND (description="CHOPMOTIND", quantity="1")
<i>Int1d</i>	CHOPRATESCALE (description="CHOPRATESCALE", quantity="1")
<i>Int1d</i>	CHOPPOSNSCALE (description="CHOPPOSNSCALE", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL1 (description="CHOPBEMFRATFIL1", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL2 (description="CHOPBEMFRATFIL2", quantity="1")
<i>Int1d</i>	CHOPJIGGCOUPLE (description="CHOPJIGGCOUPLE", quantity="1")
<i>String1d</i>	BSMSTAT (description="BSMSTAT", quantity="1")
<i>Int1d</i>	CHOPPOSNERR (description="CHOPPOSNERR", quantity="1")

<i>Int1d</i>	CHOPSENSSIG (description="CHOPSENSSIG", quantity="1")
<i>Double1d</i>	CHOPDACVAL (description="CHOPDACVAL", quantity="V")
<i>Double1d</i>	CHOPMOTORCURR (description="CHOPMOTORCURR", quantity="A")
<i>Double1d</i>	CHOPMOTORVOLT (description="CHOPMOTORVOLT", quantity="V")
<i>String1d</i>	JIGGSENSPWR (description="JIGGSENSPWR", quantity="1")
<i>String1d</i>	JIGGLOOPMODE (description="JIGGLOOPMODE", quantity="1")
<i>Int1d</i>	JIGGPOSN (description="JIGGPOSN", quantity="1")
<i>Int1d</i>	JIGGPOSN2 (description="JIGGPOSN2", quantity="1")
<i>Int1d</i>	JIGGFFOFFSET (description="JIGGFFOFFSET", quantity="1")
<i>Int1d</i>	JIGGKP (description="JIGGKP", quantity="1")
<i>Int1d</i>	JIGGKD (description="JIGGKD", quantity="1")
<i>Int1d</i>	JIGGKI (description="JIGGKI", quantity="1")
<i>Int1d</i>	JIGGINTREF (description="JIGGINTREF", quantity="1")
<i>Int1d</i>	JIGGINTLIMIT (description="JIGGINTLIMIT", quantity="1")
<i>Int1d</i>	JIGGFFGAIN (description="JIGGFFGAIN", quantity="1")
<i>Int1d</i>	JIGGFFGAINDIFF (description="JIGGFFGAINDIFF", quantity="1")
<i>Int1d</i>	JIGGDIFFTC1 (description="JIGGDIFFTC1", quantity="1")
<i>Int1d</i>	JIGGDIFFTC2 (description="JIGGDIFFTC2", quantity="1")
<i>Int1d</i>	JIGGRATELIMIT (description="JIGGRATELIMIT", quantity="1")
<i>Int1d</i>	JIGGMOTBEMFGAIN (description="JIGGMOTBEMFGAIN", quantity="1")
<i>Int1d</i>	JIGGMOTRES (description="JIGGMOTRES", quantity="1")
<i>Int1d</i>	JIGGMOTIND (description="JIGGMOTIND", quantity="1")
<i>Int1d</i>	JIGGRATESCALE (description="JIGGRATESCALE", quantity="1")
<i>Int1d</i>	JIGGPOSNSCALE (description="JIGGPOSNSCALE", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL1 (description="JIGGBEMFRATFIL1", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL2 (description="JIGGBEMFRATFIL2", quantity="1")
<i>Int1d</i>	JIGGCHOPCOUPLE (description="JIGGCHOPCOUPLE", quantity="1")
<i>Int1d</i>	JIGGPOSNERR (description="JIGGPOSNERR", quantity="1")
<i>Int1d</i>	JIGGSENSSIG (description="JIGGSENSSIG", quantity="1")
<i>Double1d</i>	JIGGDACVAL (description="JIGGDACVAL", quantity="V")
<i>Double1d</i>	JIGGMOTORCURR (description="JIGGMOTORCURR", quantity="A")
<i>Double1d</i>	JIGGMOTORVOLT (description="JIGGMOTORVOLT", quantity="V")
<i>Int1d</i>	MCUPCKT10PARM05 (description="MCUPCKT10PARM05", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM01 (description="MCUPCKT10PARM01", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM02 (description="MCUPCKT10PARM02", quantity="1")

<i>Int1d</i>	MCUPCKT10PARM03 (description="MCUPCKT10PARM03", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM04 (description="MCUPCKT10PARM04", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM01 (description="MCUPCKT12PARM01", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM02 (description="MCUPCKT12PARM02", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM03 (description="MCUPCKT12PARM03", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM04 (description="MCUPCKT12PARM04", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM05 (description="MCUPCKT12PARM05", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM06 (description="MCUPCKT12PARM06", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM01 (description="MCUPCKT14PARM01", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM02 (description="MCUPCKT14PARM02", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM03 (description="MCUPCKT14PARM03", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM04 (description="MCUPCKT14PARM04", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM05 (description="MCUPCKT14PARM05", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM06 (description="MCUPCKT14PARM06", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM07 (description="MCUPCKT14PARM07", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM08 (description="MCUPCKT14PARM08", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM09 (description="MCUPCKT14PARM09", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM10 (description="MCUPCKT14PARM10", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM11 (description="MCUPCKT14PARM11", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM12 (description="MCUPCKT14PARM12", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM13 (description="MCUPCKT14PARM13", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM14 (description="MCUPCKT14PARM14", quantity="1")
<i>Int1d</i>	SCUIFSTAT (description="SCUIFSTAT", quantity="1")
<i>Int1d</i>	SCUIFCTRL (description="SCUIFCTRL", quantity="1")
<i>Int1d</i>	SCUSSDEL (description="SCUSSDEL", quantity="1")
<i>Int1d</i>	SCUSTAT (description="SCUSTAT", quantity="1")

<i>Int1d</i>	SCUTEMPSTAT (description="SCUTEMPSTAT", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT (description="SCUDCDCSTAT", quantity="1")
<i>String1d</i>	PLIABITSTAT (description="PLIABITSTAT", quantity="1")
<i>String1d</i>	SLIABITSTAT (description="SLIABITSTAT", quantity="1")
<i>String1d</i>	MCUBITSTAT (description="MCUBITSTAT", quantity="1")
<i>Double1d</i>	SCUP5V (description="SCUP5V", quantity="V")
<i>Double1d</i>	SCUP9V (description="SCUP9V", quantity="V")
<i>Double1d</i>	SCUM9V (description="SCUM9V", quantity="V")
<i>Double1d</i>	EVHSV (description="EVHSV", quantity="V")
<i>Double1d</i>	SPHSV (description="SPHSV", quantity="V")
<i>Double1d</i>	TCHTRV (description="TCHTRV", quantity="V")
<i>Double1d</i>	SPHTRV (description="SPHTRV", quantity="V")
<i>Double1d</i>	CCUTEMP (description="CCUTEMP", quantity="K")
<i>Double1d</i>	TCUTEMP (description="TCUTEMP", quantity="K")
<i>Double1d</i>	PSUTEMP1 (description="PSUTEMP1", quantity="K")
<i>Int1d</i>	SCUFRAMECONF (description="SCUFRAMECONF", quantity="1")
<i>Int1d</i>	SCUFRAMES (description="SCUFRAMES", quantity="1")
<i>Int1d</i>	SCUFRAMESTAT (description="SCUFRAMESTAT", quantity="1")
<i>Int1d</i>	SCUCTRL (description="SCUCTRL", quantity="1")
<i>Double1d</i>	PCALV (description="PCALV", quantity="V")
<i>Double1d</i>	SCAL2V (description="SCAL2V", quantity="V")
<i>Double1d</i>	SCAL4V (description="SCAL4V", quantity="V")
<i>Double1d</i>	SCUCHT2_5V (description="SCUCHT2_5V", quantity="V")
<i>Double1d</i>	SCUCHTREF (description="SCUCHTREF", quantity="V")
<i>Double1d</i>	SCUCHTGND (description="SCUCHTGND", quantity="V")
<i>Double1d</i>	PCALCURR (description="PCALCURR", quantity="A")
<i>Double1d</i>	SCAL2CURR (description="SCAL2CURR", quantity="A")
<i>Double1d</i>	SCAL4CURR (description="SCAL4CURR", quantity="A")
<i>Double1d</i>	PSUTEMP2 (description="PSUTEMP2", quantity="K")
<i>String1d</i>	SUBKSTAT (description="SUBKSTAT", quantity="1")
<i>Double1d</i>	PUMPHRTEMP (description="PUMPHRTEMP", quantity="K")
<i>Double1d</i>	PUMPHSTEMP (description="PUMPHSTEMP", quantity="K")
<i>Double1d</i>	EVAPHSTEMP (description="EVAPHSTEMP", quantity="K")
<i>Double1d</i>	SHUNTTEMP (description="SHUNTTEMP", quantity="K")
<i>Double1d</i>	EMCFILTEMP (description="EMCFILTEMP", quantity="K")
<i>Double1d</i>	SL0TEMP (description="SL0TEMP", quantity="K")
<i>Double1d</i>	PL0TEMP (description="PL0TEMP", quantity="K")
<i>Double1d</i>	OPTTEMP (description="OPTTEMP", quantity="K")
<i>Double1d</i>	BAFTEMP (description="BAFTEMP", quantity="K")
<i>Double1d</i>	BSMIFTEMP (description="BSMIFTEMP", quantity="K")
<i>Double1d</i>	SCAL2TEMP (description="SCAL2TEMP", quantity="K")
<i>Double1d</i>	SCAL4TEMP (description="SCAL4TEMP", quantity="K")

<i>Double1d</i>	SCALTEMP (description="SCALTEMP", quantity="K")
<i>Double1d</i>	SMECIFTEMP (description="SMECIFTEMP", quantity="K")
<i>Double1d</i>	SMECTEMP (description="SMECTEMP", quantity="K")
<i>Double1d</i>	BSMTEMP (description="BSMTEMP", quantity="K")
<i>Double1d</i>	SUBKTEMP (description="SUBKTEMP", quantity="K")
<i>Double1d</i>	SCUTHTREF (description="SCUTHTREF", quantity="V")
<i>Double1d</i>	SCUTHTGND (description="SCUTHTGND", quantity="V")
<i>Int1d</i>	LOSTTCBLOCK (description="LOSTTCBLOCK", quantity="1")
<i>Int1d</i>	LOSTEVBLOCK (description="LOSTEVBLOCK", quantity="1")
<i>Int1d</i>	LOSTHKBLOCK (description="LOSTHKBLOCK", quantity="1")
<i>Int1d</i>	LOSTSDBLOCK (description="LOSTSDBLOCK", quantity="1")
<i>Int1d</i>	LOSTNTBLOCK (description="LOSTNTBLOCK", quantity="1")
<i>Int1d</i>	LS_HP_FIFOSTAT (description="LS_HP_FIFOSTAT", quantity="1")
<i>Int1d</i>	LS_LP_FIFOSTAT (description="LS_LP_FIFOSTAT", quantity="1")
<i>String1d</i>	MCUPCKT10STAT (description="MCUPCKT10STAT", quantity="1")
<i>String1d</i>	MCUPCKT12STAT (description="MCUPCKT12STAT", quantity="1")
<i>String1d</i>	MCUPCKT14STAT (description="MCUPCKT14STAT", quantity="1")
<i>String1d</i>	MCUPCKT15STAT (description="MCUPCKT15STAT", quantity="1")
<i>String1d</i>	MCURAMINTEGRITY (description="MCURAMINTEGRITY", quantity="1")
<i>String1d</i>	MCURAMTSTPROG (description="MCURAMTSTPROG", quantity="1")
<i>String1d</i>	MCURAMTSTDATA (description="MCURAMTSTDATA", quantity="1")
<i>String1d</i>	MCUPROM2RAMCOPY (description="MCUPROM2RAMCOPY", quantity="1")
<i>String1d</i>	MCUBOOTMODE (description="MCUBOOTMODE", quantity="1")
<i>Int1d</i>	SMECSELECTTAB (description="SMECSELECTTAB", quantity="1")
<i>Int1d</i>	CREC_STEP (description="CREC_STEP", quantity="1")
<i>Int1d</i>	PTC_STAGE (description="PTC_STAGE", quantity="1")
<i>Int1d</i>	SCAL_STAGE (description="SCAL_STAGE", quantity="1")
<i>Int1d</i>	JIGGLE_STEP (description="JIGGLE_STEP", quantity="1")
<i>Int1d</i>	LOSTRPBLOCK (description="LOSTRPBLOCK", quantity="1")
<i>Int1d</i>	LIAFAILCOUNT (description="LIAFAILCOUNT", quantity="1")
<i>Int1d</i>	SCANRES (description="SCANRES", quantity="1")
<i>Int1d</i>	VM_SMECSIG1OFF (description="VM_SMECSIG1OFF", quantity="1")
<i>Int1d</i>	VM_SMECSIG2OFF (description="VM_SMECSIG2OFF", quantity="1")
<i>Int1d</i>	TABLE7_09_LWORD (description="TABLE7_09_LWORD", quantity="1")
<i>String1d</i>	PTC_GET_COMMAND (description="PTC_GET_COMMAND", quantity="1")

<i>StringId</i>	SCAL_GET_COMMAND (description="SCAL_GET_COMMAND", quantity="1")
<i>LongId</i>	TABLE7_12 (description="TABLE7_12", quantity="1")
<i>StringId</i>	HK_MON_STATUS (description="HK_MON_STATUS", quantity="1")
<i>IntId</i>	CHOPJIGG_DCOUPLE (description="CHOPJIGG_DCOUPLE", quantity="1")
<i>IntId</i>	HK_02 (description="HK_02", quantity="1")
<i>IntId</i>	HK_03 (description="HK_03", quantity="1")
<i>IntId</i>	HK_04 (description="HK_04", quantity="1")
<i>IntId</i>	HK_05 (description="HK_05", quantity="1")
<i>IntId</i>	HK_06 (description="HK_06", quantity="1")
<i>IntId</i>	HK_07 (description="HK_07", quantity="1")
<i>IntId</i>	HK_08 (description="HK_08", quantity="1")
<i>IntId</i>	HK_09 (description="HK_09", quantity="1")
<i>IntId</i>	HK_10 (description="HK_10", quantity="1")
<i>IntId</i>	HK_11 (description="HK_11", quantity="1")
<i>IntId</i>	HK_12 (description="HK_12", quantity="1")
<i>IntId</i>	HK_13 (description="HK_13", quantity="1")
<i>IntId</i>	HK_14 (description="HK_14", quantity="1")
<i>IntId</i>	HK_15 (description="HK_15", quantity="1")
<i>IntId</i>	HK_16 (description="HK_16", quantity="1")
<i>IntId</i>	HK_17 (description="HK_17", quantity="1")
<i>IntId</i>	HK_18 (description="HK_18", quantity="1")
<i>IntId</i>	HK_19 (description="HK_19", quantity="1")
<i>IntId</i>	HK_20 (description="HK_20", quantity="1")
<i>IntId</i>	HK_21 (description="HK_21", quantity="1")
<i>IntId</i>	HK_22 (description="HK_22", quantity="1")
<i>IntId</i>	HK_23 (description="HK_23", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.36. SPIRE Product Level 0.5 - Critical House Keeping Timeline

<i>product</i> (type="CHKT", description="Critical House Keeping Timeline")	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")

StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")

StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="s")
Columns	
table dataset	(name="signal", description="Signal timelines")
Metadata	
Columns	
DoubleId	sampleTime (description="Sample time", quantity="TAI")
IntId	SID_C (description="SID_C", quantity="1")
LongId	OBSID_C (description="OBSID_C", quantity="1")
LongId	BBID_C (description="BBID_C", quantity="1")
StringId	MODE_C (description="MODE_C", quantity="1")
IntId	STEP_C (description="STEP_C", quantity="1")
IntId	TCRECV_C (description="TCRECV_C", quantity="1")
IntId	TCEXEC_C (description="TCEXEC_C", quantity="1")
StringId	MEMSTAT1_C (description="MEMSTAT1_C", quantity="1")
StringId	MEMSTAT2_C (description="MEMSTAT2_C", quantity="1")
StringId	MEMSTAT3_C (description="MEMSTAT3_C", quantity="1")
StringId	MONSTAT_C (description="MONSTAT_C", quantity="1")
StringId	SCUDCDCSTAT_C (description="SCUDCDCSTAT_C", quantity="1")
StringId	MCUIFSTAT_C (description="MCUIFSTAT_C", quantity="1")
StringId	SCUIFSTAT_C (description="SCUIFSTAT_C", quantity="1")
StringId	PSWJFETSTAT_C (description="PSWJFETSTAT_C", quantity="1")
StringId	PSW_VDD_JFET1_C (description="PSW_VDD_JFET1_C", quantity="1")
StringId	PSW_VDD_JFET2_C (description="PSW_VDD_JFET2_C", quantity="1")
StringId	PSW_VDD_JFET3_C (description="PSW_VDD_JFET3_C", quantity="1")
StringId	PSW_VDD_JFET4_C (description="PSW_VDD_JFET4_C", quantity="1")
StringId	PSW_VDD_JFET5_C (description="PSW_VDD_JFET5_C", quantity="1")
StringId	PSW_VDD_JFET6_C (description="PSW_VDD_JFET6_C", quantity="1")
StringId	PMLWJFETSTAT_C (description="PMLWJFETSTAT_C", quantity="1")

<i>StringId</i>	PMW_VDD_JFET1_C (description="PMW_VDD_JFET1_C", quantity="1")
<i>StringId</i>	PMW_VDD_JFET2_C (description="PMW_VDD_JFET2_C", quantity="1")
<i>StringId</i>	PMW_VDD_JFET3_C (description="PMW_VDD_JFET3_C", quantity="1")
<i>StringId</i>	PMW_VDD_JFET4_C (description="PMW_VDD_JFET4_C", quantity="1")
<i>StringId</i>	PLW_VDD_JFET1_C (description="PLW_VDD_JFET1_C", quantity="1")
<i>StringId</i>	PLW_VDD_JFET2_C (description="PLW_VDD_JFET2_C", quantity="1")
<i>StringId</i>	TC_VDD_JFET_C (description="TC_VDD_JFET_C", quantity="1")
<i>StringId</i>	SPECJFETSTAT_C (description="SPECJFETSTAT_C", quantity="1")
<i>StringId</i>	SLW_VDD_JFET1_C (description="SLW_VDD_JFET1_C", quantity="1")
<i>StringId</i>	SSW_VDD_JFET1_C (description="SSW_VDD_JFET1_C", quantity="1")
<i>StringId</i>	SSW_VDD_JFET2_C (description="SSW_VDD_JFET2_C", quantity="1")
<i>StringId</i>	LIASSTAT_C (description="LIASSTAT_C", quantity="1")
<i>StringId</i>	LIAP1STAT_C (description="LIAP1STAT_C", quantity="1")
<i>StringId</i>	LIAP2STAT_C (description="LIAP2STAT_C", quantity="1")
<i>StringId</i>	LIAP3STAT_C (description="LIAP3STAT_C", quantity="1")
<i>StringId</i>	LIAP4STAT_C (description="LIAP4STAT_C", quantity="1")
<i>StringId</i>	LIAP5STAT_C (description="LIAP5STAT_C", quantity="1")
<i>StringId</i>	LIAP6STAT_C (description="LIAP6STAT_C", quantity="1")
<i>StringId</i>	LIAP7STAT_C (description="LIAP7STAT_C", quantity="1")
<i>StringId</i>	LIAP8STAT_C (description="LIAP8STAT_C", quantity="1")
<i>StringId</i>	LIAP9STAT_C (description="LIAP9STAT_C", quantity="1")
<i>StringId</i>	LIAS1STAT_C (description="LIAS1STAT_C", quantity="1")
<i>StringId</i>	LIAS2STAT_C (description="LIAS2STAT_C", quantity="1")
<i>StringId</i>	LIAS3STAT_C (description="LIAS3STAT_C", quantity="1")
<i>StringId</i>	MCUERR_C (description="MCUERR_C", quantity="1")
<i>StringId</i>	SMECSTAT_C (description="SMECSTAT_C", quantity="1")
<i>StringId</i>	BSMSTAT_C (description="BSMSTAT_C", quantity="1")
<i>StringId</i>	SCUSTAT_C (description="SCUSTAT_C", quantity="1")
<i>DoubleId</i>	SUBKTEMP_C (description="SUBKTEMP_C", quantity="K")
<i>IntId</i>	OBSVER_C (description="OBSVER_C", quantity="1")
<i>ShortId</i>	OBSVER1_C (description="OBSVER1_C", quantity="1")
<i>ShortId</i>	OBSVER2_C (description="OBSVER2_C", quantity="1")
<i>StringId</i>	OBSVER3_C (description="OBSVER3_C", quantity="1")
<i>StringId</i>	CHK_VERS (description="CHK_VERS", quantity="1")
<i>StringId</i>	CHK_TYPE (description="CHK_TYPE", quantity="1")

<i>StringId</i>	CHK_DFHFLAG (description="CHK_DFHFLAG", quantity="1")
<i>ShortId</i>	CHK_APID (description="CHK_APID", quantity="1")
<i>StringId</i>	CHK_SEGFLAG (description="CHK_SEGFLAG", quantity="1")
<i>ShortId</i>	CHK_SSC (description="CHK_SSC", quantity="1")
<i>IntId</i>	CHK_PKTLEN (description="CHK_PKTLEN", quantity="1")
<i>StringId</i>	CHK_PUSVERS (description="CHK_PUSVERS", quantity="1")
<i>ShortId</i>	CHK_PKTTYPE (description="CHK_PKTTYPE", quantity="1")
<i>ShortId</i>	CHK_PKTSTYPE (description="CHK_PKTSTYPE", quantity="1")
<i>LongId</i>	CHK_PKTCTIME (description="CHK_PKTCTIME", quantity="1")
<i>IntId</i>	CHK_PKTFTIME (description="CHK_PKTFTIME", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.37. SPIRE Product Level 0.5 - Mechanism Control Unit Engineering Timeline

<i>product (type="MCUET", description="Mechanism Control Unit Engineering Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")

StringParameter	biasMode (description="Bias mode")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
LongParameter	maskMaster (description="Mask value for master bit", quantity="km s-1")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="km s-1")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="km s-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="ms/min")
Columns	

<i>table dataset</i>	(name="signal", description="Signal timelines")				
<i>Metadata</i>					
<i>Columns</i>					
<i>Double1d</i>	sampleTime	(description="Sample time", quantity="TAI")			
<i>Double1d</i>	SMECENCPOSN	(description="MCUENGP01", quantity="cm")			
<i>Int1d</i>	SMECENC SIG1	(description="MCUENGP02", quantity="1")			
<i>Int1d</i>	SMECENC SIG2	(description="MCUENGP03", quantity="1")			
<i>Double1d</i>	SMECENCFINEPOSN	(description="MCUENGP04", quantity="cm")			
<i>Int1d</i>	SMECLVDTDCSIG	(description="MCUENGP05", quantity="1")			
<i>Int1d</i>	SMECLVDTAC SIG	(description="MCUENGP06", quantity="1")			
<i>Double1d</i>	SMECMOTORCURRE	(description="MCUENGP07", quantity="A")			
<i>Double1d</i>	SMECMOTORVOLT	(description="MCUENGP08", quantity="V")			
<i>Int1d</i>	SMECENC SIG2AMP	(description="MCUENGP09", quantity="1")			
<i>Double1d</i>	SMECS CANPOS NERR	(description="MCUENGP10", quantity="cm")			
<i>Int1d</i>	SMECENC SIG1AMP	(description="MCUENGP11", quantity="1")			
<i>Int1d</i>	SMECMEANSPEED	(description="MCUENGP12", quantity="1")			
<i>Int1d</i>	SMECDACVAL	(description="MCUENGP13", quantity="1")			
<i>Double1d</i>	SMECLVDTPOSN	(description="MCUENGP14", quantity="cm")			
<i>Long1d</i>	transmTime	(description="MCUENGFRA METIME", quantity="1")			
	()				
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")				
	()				
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")				

5.2.38. SPIRE Product Level 0.5 - Spectrometer Offset Timeline

<i>product</i>	(type="SOT", description="Spectrometer Offset Timeline")				
<i>Metadata</i>					
StringParameter	telescope	(description="Name of telescope")			
StringParameter	instrument	(description="Instrument attached to this product")			
StringParameter	subsystem	(description="Instrument Subsystem")			
StringParameter	source	(description="TM source packet name")			
StringParameter	creator	(description="Generator of this product")			
StringParameter	object	(description="Target name")			
StringParameter	observer	(description="Observer name")			
StringParameter	proposal	(description="Proposal name")			
LongParameter	obsid	(description="Observation identifier")			

LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")

LongParameter	maskMaster (description="Mask value for master bit", quantity="km s-1")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="km s-1")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="km s-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="ms/min")
Columns	
table dataset	(name="signal", description="Signal timelines")
Metadata	
Columns	
DoubleId	sampleTime (description="Sample time", quantity="TAI")
IntId	SSWR1 (description="SPECOFF001", quantity="1")
IntId	SSWA4 (description="SPECOFF002", quantity="1")
IntId	SSWA3 (description="SPECOFF003", quantity="1")
IntId	SSWA2 (description="SPECOFF004", quantity="1")
IntId	SSWA1 (description="SPECOFF005", quantity="1")
IntId	SSWDP1 (description="SPECOFF006", quantity="1")
IntId	SSWB3 (description="SPECOFF007", quantity="1")
IntId	SSWB2 (description="SPECOFF008", quantity="1")
IntId	SSWB1 (description="SPECOFF009", quantity="1")
IntId	SSWC3 (description="SPECOFF010", quantity="1")
IntId	SSWC2 (description="SPECOFF011", quantity="1")
IntId	SSWC1 (description="SPECOFF012", quantity="1")
IntId	SSWD3 (description="SPECOFF013", quantity="1")
IntId	SSWD2 (description="SPECOFF014", quantity="1")
IntId	SSWD1 (description="SPECOFF015", quantity="1")
IntId	SSWE3 (description="SPECOFF016", quantity="1")
IntId	SSWE2 (description="SPECOFF017", quantity="1")
IntId	SSWE1 (description="SPECOFF018", quantity="1")
IntId	SSWF3 (description="SPECOFF019", quantity="1")
IntId	SSWF2 (description="SPECOFF020", quantity="1")
IntId	SSWF1 (description="SPECOFF021", quantity="1")
IntId	SSWG1 (description="SPECOFF022", quantity="1")
IntId	SSWT1 (description="SPECOFF023", quantity="1")
IntId	SSWG2 (description="SPECOFF024", quantity="1")
IntId	SSWE5 (description="SPECOFF025", quantity="1")
IntId	SSWE4 (description="SPECOFF026", quantity="1")
IntId	SSWD7 (description="SPECOFF027", quantity="1")

<i>Int1d</i>	SSWD6 (description="SPECOFF028", quantity="1")
<i>Int1d</i>	SSWD5 (description="SPECOFF029", quantity="1")
<i>Int1d</i>	SSWD4 (description="SPECOFF030", quantity="1")
<i>Int1d</i>	SSWC6 (description="SPECOFF031", quantity="1")
<i>Int1d</i>	SSWC5 (description="SPECOFF032", quantity="1")
<i>Int1d</i>	SSWC4 (description="SPECOFF033", quantity="1")
<i>Int1d</i>	SSWB5 (description="SPECOFF034", quantity="1")
<i>Int1d</i>	SSWB4 (description="SPECOFF035", quantity="1")
<i>Int1d</i>	SSWT2 (description="SPECOFF036", quantity="1")
<i>Int1d</i>	SSWG3 (description="SPECOFF037", quantity="1")
<i>Int1d</i>	SSWG4 (description="SPECOFF038", quantity="1")
<i>Int1d</i>	SSWDP2 (description="SPECOFF039", quantity="1")
<i>Int1d</i>	SSWF5 (description="SPECOFF040", quantity="1")
<i>Int1d</i>	SSWF4 (description="SPECOFF041", quantity="1")
<i>Int1d</i>	SSWE6 (description="SPECOFF042", quantity="1")
<i>Int1d</i>	SSWN1 (description="SPECOFF043", quantity="1")
<i>Int1d</i>	SSWN2 (description="SPECOFF044", quantity="1")
<i>Int1d</i>	SSWN3 (description="SPECOFF045", quantity="1")
<i>Int1d</i>	SSWN4 (description="SPECOFF046", quantity="1")
<i>Int1d</i>	SSWN5 (description="SPECOFF047", quantity="1")
<i>Int1d</i>	SSWN6 (description="SPECOFF048", quantity="1")
<i>Int1d</i>	SLWR1 (description="SPECOFF049", quantity="1")
<i>Int1d</i>	SLWT1 (description="SPECOFF050", quantity="1")
<i>Int1d</i>	SLWC1 (description="SPECOFF051", quantity="1")
<i>Int1d</i>	SLWDP1 (description="SPECOFF052", quantity="1")
<i>Int1d</i>	SLWB1 (description="SPECOFF053", quantity="1")
<i>Int1d</i>	SLWD1 (description="SPECOFF054", quantity="1")
<i>Int1d</i>	SLWE1 (description="SPECOFF055", quantity="1")
<i>Int1d</i>	SLWA1 (description="SPECOFF056", quantity="1")
<i>Int1d</i>	SLWC2 (description="SPECOFF057", quantity="1")
<i>Int1d</i>	SLWD2 (description="SPECOFF058", quantity="1")
<i>Int1d</i>	SLWB2 (description="SPECOFF059", quantity="1")
<i>Int1d</i>	SLWE2 (description="SPECOFF060", quantity="1")
<i>Int1d</i>	SLWA2 (description="SPECOFF061", quantity="1")
<i>Int1d</i>	SLWC3 (description="SPECOFF062", quantity="1")
<i>Int1d</i>	SLWD3 (description="SPECOFF063", quantity="1")
<i>Int1d</i>	SLWB3 (description="SPECOFF064", quantity="1")
<i>Int1d</i>	SLWE3 (description="SPECOFF065", quantity="1")
<i>Int1d</i>	SLWC4 (description="SPECOFF066", quantity="1")
<i>Int1d</i>	SLWDP2 (description="SPECOFF067", quantity="1")
<i>Int1d</i>	SLWD4 (description="SPECOFF068", quantity="1")
<i>Int1d</i>	SLWC5 (description="SPECOFF069", quantity="1")

	<i>Int1d</i>	SLWB4 (description="SPECOFF070", quantity="1")
	<i>Int1d</i>	SLWA3 (description="SPECOFF071", quantity="1")
	<i>Int1d</i>	SLWT2 (description="SPECOFF072", quantity="1")
	<i>Int1d</i>	adcFlags (description="SPECOFFADCFLGS", quantity="1")
		()
	<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
		()
	<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.39. SPIRE Product Level 0.5 - Beam Steering Mirror Timeline

<i>product (type="BSMT", description="Beam Steering Mirror Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")

StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
LongParameter	maskMaster (description="Mask value for master bit", quantity="km s-1")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="km s-1")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="km s-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="ms/min")
<i>Columns</i>	
<i>table dataset</i>	(name="signal", description="Signal timelines")
<i>Metadata</i>	
<i>Columns</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>IntId</i>	chopSens (description="BSMCHOPSENSSIG", quantity="1")
<i>IntId</i>	chopMotorCurr (description="BSMCHOPMOTORCURRE", quantity="1")

	<i>Int1d</i>	chopMotorVolt (description="BSMCHOPMOTORVOLT", quantity="1")
	<i>Int1d</i>	jiggSens (description="BSMJIGGSENSSIG", quantity="1")
	<i>Int1d</i>	jiggMotorCurr (description="BSMJIGGMOTORCURR", quantity="1")
	<i>Int1d</i>	jiggMotorVolt (description="BSMJIGGMOTORVOLT", quantity="1")
	<i>Long1d</i>	transmTime (description="BSMTTIME", quantity="1")
		()
	<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
		()
	<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.40. SPIRE Product Level 0.5 - Spectrometer Detector Timeline

<i>product (type="SDT", description="Spectrometer Detector Timeline")</i>	
<i>Metada- ta</i>	
StringParame- ter	telescope (description="Name of telescope")
StringParame- ter	instrument (description="Instrument attached to this product")
StringParame- ter	subsystem (description="Instrument Subsystem")
StringParame- ter	source (description="TM source packet name")
StringParame- ter	creator (description="Generator of this product")
StringParame- ter	object (description="Target name")
StringParame- ter	observer (description="Observer name")
StringParame- ter	proposal (description="Proposal name")
LongParame- ter	obsid (description="Observation identifier")
LongParame- ter	odNumber (description="Operational day number")
DateParame- ter	creationDate (description="Creation date of this product")
DateParame- ter	startDate (description="Start date of this product")
DateParame- ter	endDate (description="End date of this product")
StringParame- ter	aot (description="AOT Identifier")

StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	jiggId (description="Jiggle ID")
LongParameter	pointNum (description="Pointing number")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
DoubleParameter	biasFreq (description="Bias frequency", quantity="Hz")
StringParameter	elecSide (description="Electronic side", quantity="Hz")
StringParameter	modelName (description="Model name attached to this product", quantity="Hz")
StringParameter	formatVersion (description="Version of product format", quantity="Hz")
StringParameter	missionConfig (description="Mission configuration", quantity="Hz")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")

DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
StringParameter	signalTable (description="Name of the signal table", quantity="km s-1")
LongParameter	maskDead (description="Mask value for dead channel", quantity="km s-1")
LongParameter	maskMaster (description="Mask value for master bit", quantity="km s-1")
LongParameter	maskNoisy (description="Mask value for noisy channel", quantity="km s-1")
LongParameter	maskSlow (description="Mask value for slow channel", quantity="km s-1")
BooleanParameter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="km s-1")
DoubleParameter	ratioTruncatedSSW (description="Maximum ratio of out of range values to total number of values in SSW data", quantity="km s-1")
DoubleParameter	ratioTruncatedSLW (description="Maximum ratio of out of range values to total number of values in SLW data", quantity="km s-1")
LongParameter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="km s-1")
LongParameter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="km s-1")
LongParameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="km s-1")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="km s-1")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="km s-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")

DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
DoubleParameter	slwBiasAmpl (description="SLW bias amplitude", quantity="V")
DoubleParameter	sswBiasAmpl (description="SSW bias amplitude", quantity="V")
DoubleParameter	slwBiasPhase (description="SLW bias phase", quantity="rad")
DoubleParameter	sswBiasPhase (description="SSW bias phase", quantity="rad")
BooleanParameter	rcRollApp (description="RC roll correction applied", quantity="rad")
DoubleParameter	subkTempDrift (description="Drift measured by the SubK temperature probe", quantity="K")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="K")
Columns	
table dataset	(name="voltage", description="Voltages table")
Metadata	
Columns	
DoubleId	sampleTime (description="Sample time", quantity="TAI")
FloatId	SSWR1 (description="SPECFARRAY001", quantity="V")
FloatId	SSWA4 (description="SPECFARRAY002", quantity="V")
FloatId	SSWA3 (description="SPECFARRAY003", quantity="V")
FloatId	SSWA2 (description="SPECFARRAY004", quantity="V")
FloatId	SSWA1 (description="SPECFARRAY005", quantity="V")
FloatId	SSWDP1 (description="SPECFARRAY006", quantity="V")
FloatId	SSWB3 (description="SPECFARRAY007", quantity="V")
FloatId	SSWB2 (description="SPECFARRAY008", quantity="V")
FloatId	SSWB1 (description="SPECFARRAY009", quantity="V")
FloatId	SSWC3 (description="SPECFARRAY010", quantity="V")
FloatId	SSWC2 (description="SPECFARRAY011", quantity="V")
FloatId	SSWC1 (description="SPECFARRAY012", quantity="V")
FloatId	SSWD3 (description="SPECFARRAY013", quantity="V")
FloatId	SSWD2 (description="SPECFARRAY014", quantity="V")
FloatId	SSWD1 (description="SPECFARRAY015", quantity="V")
FloatId	SSWE3 (description="SPECFARRAY016", quantity="V")
FloatId	SSWE2 (description="SPECFARRAY017", quantity="V")
FloatId	SSWE1 (description="SPECFARRAY018", quantity="V")
FloatId	SSWF3 (description="SPECFARRAY019", quantity="V")
FloatId	SSWF2 (description="SPECFARRAY020", quantity="V")
FloatId	SSWF1 (description="SPECFARRAY021", quantity="V")

<i>FloatId</i>	SSWG1 (description="SPECFARRAY022", quantity="V")
<i>FloatId</i>	SSWT1 (description="SPECFARRAY023", quantity="V")
<i>FloatId</i>	SSWG2 (description="SPECFARRAY024", quantity="V")
<i>FloatId</i>	SSWE5 (description="SPECFARRAY025", quantity="V")
<i>FloatId</i>	SSWE4 (description="SPECFARRAY026", quantity="V")
<i>FloatId</i>	SSWD7 (description="SPECFARRAY027", quantity="V")
<i>FloatId</i>	SSWD6 (description="SPECFARRAY028", quantity="V")
<i>FloatId</i>	SSWD5 (description="SPECFARRAY029", quantity="V")
<i>FloatId</i>	SSWD4 (description="SPECFARRAY030", quantity="V")
<i>FloatId</i>	SSWC6 (description="SPECFARRAY031", quantity="V")
<i>FloatId</i>	SSWC5 (description="SPECFARRAY032", quantity="V")
<i>FloatId</i>	SSWC4 (description="SPECFARRAY033", quantity="V")
<i>FloatId</i>	SSWB5 (description="SPECFARRAY034", quantity="V")
<i>FloatId</i>	SSWB4 (description="SPECFARRAY035", quantity="V")
<i>FloatId</i>	SSWT2 (description="SPECFARRAY036", quantity="V")
<i>FloatId</i>	SSWG3 (description="SPECFARRAY037", quantity="V")
<i>FloatId</i>	SSWG4 (description="SPECFARRAY038", quantity="V")
<i>FloatId</i>	SSWDP2 (description="SPECFARRAY039", quantity="V")
<i>FloatId</i>	SSWF5 (description="SPECFARRAY040", quantity="V")
<i>FloatId</i>	SSWF4 (description="SPECFARRAY041", quantity="V")
<i>FloatId</i>	SSWE6 (description="SPECFARRAY042", quantity="V")
<i>FloatId</i>	SLWR1 (description="SPECFARRAY049", quantity="V")
<i>FloatId</i>	SLWT1 (description="SPECFARRAY050", quantity="V")
<i>FloatId</i>	SLWC1 (description="SPECFARRAY051", quantity="V")
<i>FloatId</i>	SLWDP1 (description="SPECFARRAY052", quantity="V")
<i>FloatId</i>	SLWB1 (description="SPECFARRAY053", quantity="V")
<i>FloatId</i>	SLWD1 (description="SPECFARRAY054", quantity="V")
<i>FloatId</i>	SLWE1 (description="SPECFARRAY055", quantity="V")
<i>FloatId</i>	SLWA1 (description="SPECFARRAY056", quantity="V")
<i>FloatId</i>	SLWC2 (description="SPECFARRAY057", quantity="V")
<i>FloatId</i>	SLWD2 (description="SPECFARRAY058", quantity="V")
<i>FloatId</i>	SLWB2 (description="SPECFARRAY059", quantity="V")
<i>FloatId</i>	SLWE2 (description="SPECFARRAY060", quantity="V")
<i>FloatId</i>	SLWA2 (description="SPECFARRAY061", quantity="V")
<i>FloatId</i>	SLWC3 (description="SPECFARRAY062", quantity="V")
<i>FloatId</i>	SLWD3 (description="SPECFARRAY063", quantity="V")
<i>FloatId</i>	SLWB3 (description="SPECFARRAY064", quantity="V")
<i>FloatId</i>	SLWE3 (description="SPECFARRAY065", quantity="V")
<i>FloatId</i>	SLWC4 (description="SPECFARRAY066", quantity="V")
<i>FloatId</i>	SLWDP2 (description="SPECFARRAY067", quantity="V")
<i>FloatId</i>	SLWD4 (description="SPECFARRAY068", quantity="V")
<i>FloatId</i>	SLWC5 (description="SPECFARRAY069", quantity="V")

<i>FloatId</i>	SLWB4 (description="SPECFARRAY070", quantity="V")
<i>FloatId</i>	SLWA3 (description="SPECFARRAY071", quantity="V")
<i>FloatId</i>	SLWT2 (description="SPECFARRAY072", quantity="V")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="resistance", description="Resistances table")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="quality", description="Quality control metric quantities")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="temperature", description="Temperature")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.41. SPIRE Product Level 0.5 - Spectrometer Mechanism Timeline

<i>product (type="SMECT", description="Spectrometer Mechanism Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")

StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
LongParameter	maskMaster (description="Mask value for master bit", quantity="km s-1")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="km s-1")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="km s-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="ms/min")
Columns	

<i>table dataset</i>	(name="signal", description="Signal timelines")	
<i>Metadata</i>		
<i>Columns</i>		
<i>DoubleId</i>	sampleTime	(description="Sample time", quantity="TAI")
<i>DoubleId</i>	encoderCoarse	(description="SMECSELENCPOSN", quantity="cm")
<i>DoubleId</i>	encoderFine	(description="SMECSELENCFINEPOSN", quantity="cm")
<i>DoubleId</i>	lvdtposn	(description="SMECSELLVDTPOSN", quantity="cm")
<i>DoubleId</i>	posnError	(description="SMECSELPOSNERROR", quantity="cm")
	()	
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")	
	()	
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")	

5.2.42. SPIRE Product Level 0.5 - Subsystem Control Unit Timeline

<i>product (type="SCUT", description="Subsystem Control Unit Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")

LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
LongParameter	maskMaster (description="Mask value for master bit", quantity="km s-1")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="km s-1")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="km s-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="ms/min")
<i>Columns</i>	
<i>table dataset</i>	(name="signal", description="Signal timelines")

Metadata	
Columns	
<i>Double1d</i>	sampleTime (description="Sample time", quantity="TAI")
<i>Double1d</i>	pumpHTemp (description="SCUPHTEMP", quantity="K")
<i>Double1d</i>	pumpHSTemp (description="SCUPHSTEMP", quantity="K")
<i>Double1d</i>	evapHSTemp (description="SCUEVHSTEMP", quantity="K")
<i>Double1d</i>	shuntTemp (description="SCUSHUNTTEMP", quantity="K")
<i>Double1d</i>	emcFilTemp (description="SCUEMCFILTEMP", quantity="K")
<i>Double1d</i>	specL0Temp (description="SCUSL0TEMP", quantity="K")
<i>Double1d</i>	photL0Temp (description="SCUPL0TEMP", quantity="K")
<i>Double1d</i>	osbTemp (description="SCUOPTTEMP", quantity="K")
<i>Double1d</i>	fpuBaffTemp (description="SCUBAFTEMP", quantity="K")
<i>Double1d</i>	bsmIntTemp (description="SCUBSMIFTEMP", quantity="K")
<i>Double1d</i>	scal2Temp (description="SCUSCAL2TEMP", quantity="K")
<i>Double1d</i>	scal4Temp (description="SCUSCAL4TEMP", quantity="K")
<i>Double1d</i>	scalFlanTemp (description="SCUSCALTEMP", quantity="K")
<i>Double1d</i>	smecIntTemp (description="SCUSMECIFTEMP", quantity="K")
<i>Double1d</i>	smecTemp (description="SCUSMECTEMP", quantity="K")
<i>Double1d</i>	bsmTemp (description="SCUBSMTEMP", quantity="K")
<i>Double1d</i>	ceSubKTemp (description="SCUSUBKTEMP", quantity="K")
<i>Double1d</i>	tchVolt (description="SCUTCHTRV", quantity="V")
<i>Double1d</i>	pcalCurr (description="SCUPCALCURR", quantity="A")
<i>Double1d</i>	pcalVolt (description="SCUPCALV", quantity="V")
<i>Double1d</i>	scal2Curr (description="SCUSCAL2CURR", quantity="A")
<i>Double1d</i>	scal2Volt (description="SCUSCAL2V", quantity="V")
<i>Double1d</i>	scal4Curr (description="SCUSCAL4CURR", quantity="A")
<i>Double1d</i>	scal4Volt (description="SCUSCAL4V", quantity="V")
<i>Int1d</i>	adcFlags (description="SCUADC_FLAGS", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.43. SPIRE Product Level 0.5 - Critical House Keeping Timeline

<i>product (type="CHKT", description="Critical House Keeping Timeline")</i>	
Metadata	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")

StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")

StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in the engineering conversion", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="s")
Columns	
table dataset	(name="signal", description="Signal timelines")
Metadata	
Columns	
DoubleId	sampleTime (description="Sample time", quantity="TAI")
IntId	SID_C (description="SID_C", quantity="1")
LongId	OBSID_C (description="OBSID_C", quantity="1")
LongId	BBID_C (description="BBID_C", quantity="1")
StringId	MODE_C (description="MODE_C", quantity="1")
IntId	STEP_C (description="STEP_C", quantity="1")
IntId	TCRECV_C (description="TCRECV_C", quantity="1")
IntId	TCEXEC_C (description="TCEXEC_C", quantity="1")
StringId	MEMSTAT1_C (description="MEMSTAT1_C", quantity="1")
StringId	MEMSTAT2_C (description="MEMSTAT2_C", quantity="1")
StringId	MEMSTAT3_C (description="MEMSTAT3_C", quantity="1")
StringId	MONSTAT_C (description="MONSTAT_C", quantity="1")
StringId	SCUDCDCSTAT_C (description="SCUDCDCSTAT_C", quantity="1")
StringId	MCUIFSTAT_C (description="MCUIFSTAT_C", quantity="1")
StringId	SCUIFSTAT_C (description="SCUIFSTAT_C", quantity="1")
StringId	PSWJFETSTAT_C (description="PSWJFETSTAT_C", quantity="1")
StringId	PSW_VDD_JFET1_C (description="PSW_VDD_JFET1_C", quantity="1")
StringId	PSW_VDD_JFET2_C (description="PSW_VDD_JFET2_C", quantity="1")
StringId	PSW_VDD_JFET3_C (description="PSW_VDD_JFET3_C", quantity="1")
StringId	PSW_VDD_JFET4_C (description="PSW_VDD_JFET4_C", quantity="1")
StringId	PSW_VDD_JFET5_C (description="PSW_VDD_JFET5_C", quantity="1")
StringId	PSW_VDD_JFET6_C (description="PSW_VDD_JFET6_C", quantity="1")
StringId	PMLWJFETSTAT_C (description="PMLWJFETSTAT_C", quantity="1")

<i>StringId</i>	PMW_VDD_JFET1_C (description="PMW_VDD_JFET1_C", quantity="1")
<i>StringId</i>	PMW_VDD_JFET2_C (description="PMW_VDD_JFET2_C", quantity="1")
<i>StringId</i>	PMW_VDD_JFET3_C (description="PMW_VDD_JFET3_C", quantity="1")
<i>StringId</i>	PMW_VDD_JFET4_C (description="PMW_VDD_JFET4_C", quantity="1")
<i>StringId</i>	PLW_VDD_JFET1_C (description="PLW_VDD_JFET1_C", quantity="1")
<i>StringId</i>	PLW_VDD_JFET2_C (description="PLW_VDD_JFET2_C", quantity="1")
<i>StringId</i>	TC_VDD_JFET_C (description="TC_VDD_JFET_C", quantity="1")
<i>StringId</i>	SPECJFETSTAT_C (description="SPECJFETSTAT_C", quantity="1")
<i>StringId</i>	SLW_VDD_JFET1_C (description="SLW_VDD_JFET1_C", quantity="1")
<i>StringId</i>	SSW_VDD_JFET1_C (description="SSW_VDD_JFET1_C", quantity="1")
<i>StringId</i>	SSW_VDD_JFET2_C (description="SSW_VDD_JFET2_C", quantity="1")
<i>StringId</i>	LIASSTAT_C (description="LIASSTAT_C", quantity="1")
<i>StringId</i>	LIAP1STAT_C (description="LIAP1STAT_C", quantity="1")
<i>StringId</i>	LIAP2STAT_C (description="LIAP2STAT_C", quantity="1")
<i>StringId</i>	LIAP3STAT_C (description="LIAP3STAT_C", quantity="1")
<i>StringId</i>	LIAP4STAT_C (description="LIAP4STAT_C", quantity="1")
<i>StringId</i>	LIAP5STAT_C (description="LIAP5STAT_C", quantity="1")
<i>StringId</i>	LIAP6STAT_C (description="LIAP6STAT_C", quantity="1")
<i>StringId</i>	LIAP7STAT_C (description="LIAP7STAT_C", quantity="1")
<i>StringId</i>	LIAP8STAT_C (description="LIAP8STAT_C", quantity="1")
<i>StringId</i>	LIAP9STAT_C (description="LIAP9STAT_C", quantity="1")
<i>StringId</i>	LIAS1STAT_C (description="LIAS1STAT_C", quantity="1")
<i>StringId</i>	LIAS2STAT_C (description="LIAS2STAT_C", quantity="1")
<i>StringId</i>	LIAS3STAT_C (description="LIAS3STAT_C", quantity="1")
<i>StringId</i>	MCUERR_C (description="MCUERR_C", quantity="1")
<i>StringId</i>	SMECSTAT_C (description="SMECSTAT_C", quantity="1")
<i>StringId</i>	BSMSTAT_C (description="BSMSTAT_C", quantity="1")
<i>StringId</i>	SCUSTAT_C (description="SCUSTAT_C", quantity="1")
<i>DoubleId</i>	SUBKTEMP_C (description="SUBKTEMP_C", quantity="K")
<i>IntId</i>	OBSVER_C (description="OBSVER_C", quantity="1")
<i>ShortId</i>	OBSVER1_C (description="OBSVER1_C", quantity="1")
<i>ShortId</i>	OBSVER2_C (description="OBSVER2_C", quantity="1")
<i>StringId</i>	OBSVER3_C (description="OBSVER3_C", quantity="1")
<i>StringId</i>	CHK_VERS (description="CHK_VERS", quantity="1")
<i>StringId</i>	CHK_TYPE (description="CHK_TYPE", quantity="1")

<i>StringId</i>	CHK_DFHFLAG (description="CHK_DFHFLAG", quantity="1")
<i>ShortId</i>	CHK_APID (description="CHK_APID", quantity="1")
<i>StringId</i>	CHK_SEGFLAG (description="CHK_SEGFLAG", quantity="1")
<i>ShortId</i>	CHK_SSC (description="CHK_SSC", quantity="1")
<i>IntId</i>	CHK_PKTLEN (description="CHK_PKTLEN", quantity="1")
<i>StringId</i>	CHK_PUSVERS (description="CHK_PUSVERS", quantity="1")
<i>ShortId</i>	CHK_PKTTYPE (description="CHK_PKTTYPE", quantity="1")
<i>ShortId</i>	CHK_PKTSTYPE (description="CHK_PKTSTYPE", quantity="1")
<i>LongId</i>	CHK_PKTCTIME (description="CHK_PKTCTIME", quantity="1")
<i>IntId</i>	CHK_PKTFTIME (description="CHK_PKTFTIME", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.44. SPIRE Product Level 0.5 - Nominal House Keeping Timeline

<i>product (type="NHKT", description="Nominal House Keeping Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")

StringParameter	biasMode (description="Bias mode")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in the engineering conversion", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="s")
<i>Columns</i>	
<i>table dataset</i>	(name="signal", description="Signal timelines")
<i>Metadata</i>	
<i>Columns</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>StringId</i>	NHK_VERS (description="NHK_VERS", quantity="1")
<i>StringId</i>	NHK_TYPE (description="NHK_TYPE", quantity="1")
<i>StringId</i>	NHK_DFHFLAG (description="NHK_DFHFLAG", quantity="1")

<i>ShortId</i>	NHK_APID (description="NHK_APID", quantity="1")
<i>StringId</i>	NHK_SEGFLAG (description="NHK_SEGFLAG", quantity="1")
<i>ShortId</i>	NHK_SSC (description="NHK_SSC", quantity="1")
<i>IntId</i>	NHK_PKTLEN (description="NHK_PKTLEN", quantity="1")
<i>StringId</i>	NHK_PUSVERS (description="NHK_PUSVERS", quantity="1")
<i>ShortId</i>	NHK_PKTTYPE (description="NHK_PKTTYPE", quantity="1")
<i>ShortId</i>	NHK_PKTSTYPE (description="NHK_PKTSTYPE", quantity="1")
<i>LongId</i>	NHK_PKTCTIME (description="NHK_PKTCTIME", quantity="1")
<i>IntId</i>	NHK_PKTFTIME (description="NHK_PKTFTIME", quantity="1")
<i>StringId</i>	BBFULLTYPE (description="BBFULLTYPE", quantity="1")
<i>StringId</i>	MODE (description="MODE", quantity="1")
<i>IntId</i>	STEP (description="STEP", quantity="1")
<i>StringId</i>	THSK (description="THSK", quantity="1")
<i>LongId</i>	TRESET (description="TRESET", quantity="1")
<i>IntId</i>	TCRECV (description="TCRECV", quantity="1")
<i>IntId</i>	TCRECN (description="TCRECN", quantity="1")
<i>IntId</i>	TCEXEC (description="TCEXEC", quantity="1")
<i>IntId</i>	TCEXEN (description="TCEXEN", quantity="1")
<i>IntId</i>	TM1N (description="TM1N", quantity="1")
<i>IntId</i>	TM2N (description="TM2N", quantity="1")
<i>IntId</i>	TM3N (description="TM3N", quantity="1")
<i>IntId</i>	TM4N (description="TM4N", quantity="1")
<i>IntId</i>	TM5N (description="TM5N", quantity="1")
<i>IntId</i>	DCUFRAMECNT (description="DCUFRAMECNT", quantity="1")
<i>IntId</i>	MCUFRAMECNT (description="MCUFRAMECNT", quantity="1")
<i>IntId</i>	SCUFRAMECNT (description="SCUFRAMECNT", quantity="1")
<i>StringId</i>	TSYNC (description="TSYNC", quantity="1")
<i>StringId</i>	TDIFF (description="TDIFF", quantity="1")
<i>StringId</i>	MEMSTAT_1 (description="MEMSTAT_1", quantity="1")
<i>StringId</i>	MEMSTAT_2 (description="MEMSTAT_2", quantity="1")
<i>StringId</i>	MEMSTAT_3 (description="MEMSTAT_3", quantity="1")
<i>StringId</i>	MONSTAT (description="MONSTAT", quantity="1")
<i>StringId</i>	DCULSIFSTAT (description="DCULSIFSTAT", quantity="1")
<i>StringId</i>	DCUHSIFMODE (description="DCUHSIFMODE", quantity="1")
<i>StringId</i>	MCULSIFSTAT (description="MCULSIFSTAT", quantity="1")
<i>StringId</i>	MCUHSIFMODE (description="MCUHSIFMODE", quantity="1")
<i>StringId</i>	SCULSIFSTAT (description="SCULSIFSTAT", quantity="1")
<i>StringId</i>	SCUHSIFMODE (description="SCUHSIFMODE", quantity="1")
<i>IntId</i>	BBCOUNT (description="BBCOUNT", quantity="1")
<i>IntId</i>	VMSTAT (description="VMSTAT", quantity="1")
<i>IntId</i>	VM1STAT (description="VM1STAT", quantity="1")
<i>IntId</i>	VM2STAT (description="VM2STAT", quantity="1")

<i>Int1d</i>	VM3STAT (description="VM3STAT", quantity="1")
<i>Int1d</i>	VMSTATAFX (description="VMSTATAFX", quantity="1")
<i>Int1d</i>	SD_VALUE0 (description="SD_VALUE0", quantity="1")
<i>Int1d</i>	SD_ADDRESS0 (description="SD_ADDRESS0", quantity="1")
<i>Int1d</i>	SD_VALUE1 (description="SD_VALUE1", quantity="1")
<i>Int1d</i>	SD_ADDRESS1 (description="SD_ADDRESS1", quantity="1")
<i>Int1d</i>	SD_VALUE2 (description="SD_VALUE2", quantity="1")
<i>Int1d</i>	SD_ADDRESS2 (description="SD_ADDRESS2", quantity="1")
<i>Int1d</i>	SD_VALUE3 (description="SD_VALUE3", quantity="1")
<i>Int1d</i>	SD_ADDRESS3 (description="SD_ADDRESS3", quantity="1")
<i>Double1d</i>	DPUP5V (description="DPUP5V", quantity="V")
<i>Double1d</i>	DPUP15V (description="DPUP15V", quantity="V")
<i>Double1d</i>	DPUM15V (description="DPUM15V", quantity="V")
<i>Double1d</i>	DPUTEMP (description="DPUTEMP", quantity="K")
<i>Int1d</i>	CPULOAD (description="CPULOAD", quantity="1")
<i>Long1d</i>	LSLOAD (description="LSLOAD", quantity="1")
<i>Double1d</i>	DPUP2_5V (description="DPUP2_5V", quantity="V")
<i>String1d</i>	DCUDATAMODE (description="DCUDATAMODE", quantity="1")
<i>String1d</i>	DCUDATAFRMS (description="DCUDATAFRMS", quantity="1")
<i>String1d</i>	DCUDATASTAT (description="DCUDATASTAT", quantity="1")
<i>Int1d</i>	PHOTBIASDIV (description="PHOTBIASDIV", quantity="1")
<i>String1d</i>	PHOTBIASMODE (description="PHOTBIASMODE", quantity="1")
<i>Int1d</i>	PHOTMCLKDIV (description="PHOTMCLKDIV", quantity="1")
<i>Double1d</i>	PSWBIAS (description="PSWBIAS", quantity="V")
<i>Double1d</i>	PMWBIAS (description="PMWBIAS", quantity="V")
<i>Double1d</i>	PLWBIAS (description="PLWBIAS", quantity="V")
<i>Double1d</i>	TCBIAS (description="TCBIAS", quantity="V")
<i>Double1d</i>	PSWPHASE (description="PSWPHASE", quantity="deg")
<i>Double1d</i>	PMWPHASE (description="PMWPHASE", quantity="deg")
<i>Double1d</i>	PLWPHASE (description="PLWPHASE", quantity="deg")
<i>Double1d</i>	TCPHASE (description="TCPHASE", quantity="deg")
<i>Int1d</i>	PSWJFETSTAT (description="PSWJFETSTAT", quantity="1")
<i>String1d</i>	PSW_VDD_JFET1 (description="PSW_VDD_JFET1", quantity="1")
<i>String1d</i>	PSW_VDD_JFET2 (description="PSW_VDD_JFET2", quantity="1")
<i>String1d</i>	PSW_VDD_JFET3 (description="PSW_VDD_JFET3", quantity="1")
<i>String1d</i>	PSW_VDD_JFET4 (description="PSW_VDD_JFET4", quantity="1")
<i>String1d</i>	PSW_VDD_JFET5 (description="PSW_VDD_JFET5", quantity="1")
<i>String1d</i>	PSW_VDD_JFET6 (description="PSW_VDD_JFET6", quantity="1")
<i>Int1d</i>	PMLWJFETSTAT (description="PMLWJFETSTAT", quantity="1")
<i>String1d</i>	PMW_VDD_JFET1 (description="PMW_VDD_JFET1", quantity="1")
<i>String1d</i>	PMW_VDD_JFET2 (description="PMW_VDD_JFET2", quantity="1")
<i>String1d</i>	PMW_VDD_JFET3 (description="PMW_VDD_JFET3", quantity="1")

<i>String1d</i>	PMW_VDD_JFET4 (description="PMW_VDD_JFET4", quantity="1")
<i>String1d</i>	PLW_VDD_JFET1 (description="PLW_VDD_JFET1", quantity="1")
<i>String1d</i>	PLW_VDD_JFET2 (description="PLW_VDD_JFET2", quantity="1")
<i>String1d</i>	TC_VDD_JFET (description="TC_VDD_JFET", quantity="1")
<i>Double1d</i>	PSWJFET1V (description="PSWJFET1V", quantity="V")
<i>Double1d</i>	PSWJFET2V (description="PSWJFET2V", quantity="V")
<i>Double1d</i>	PSWJFET3V (description="PSWJFET3V", quantity="V")
<i>Double1d</i>	PSWJFET4V (description="PSWJFET4V", quantity="V")
<i>Double1d</i>	PSWJFET5V (description="PSWJFET5V", quantity="V")
<i>Double1d</i>	PSWJFET6V (description="PSWJFET6V", quantity="V")
<i>Double1d</i>	PMWJFET1V (description="PMWJFET1V", quantity="V")
<i>Double1d</i>	PMWJFET2V (description="PMWJFET2V", quantity="V")
<i>Double1d</i>	PMWJFET3V (description="PMWJFET3V", quantity="V")
<i>Double1d</i>	PMWJFET4V (description="PMWJFET4V", quantity="V")
<i>Double1d</i>	PLWJFET1V (description="PLWJFET1V", quantity="V")
<i>Double1d</i>	PLWJFET2V (description="PLWJFET2V", quantity="V")
<i>Double1d</i>	PHOTHTRV (description="PHOTHTRV", quantity="V")
<i>Double1d</i>	TCJFETV (description="TCJFETV", quantity="V")
<i>Int1d</i>	SPECBIASDIV (description="SPECBIASDIV", quantity="1")
<i>String1d</i>	SPECBIASMODE (description="SPECBIASMODE", quantity="1")
<i>Int1d</i>	SPECMCLKDIV (description="SPECMCLKDIV", quantity="1")
<i>Double1d</i>	SSWBIAS (description="SSWBIAS", quantity="V")
<i>Double1d</i>	SLWBIAS (description="SLWBIAS", quantity="V")
<i>Double1d</i>	SSWPHASE (description="SSWPHASE", quantity="deg")
<i>Double1d</i>	SLWPHASE (description="SLWPHASE", quantity="deg")
<i>Int1d</i>	SPECJFETSTAT (description="SPECJFETSTAT", quantity="1")
<i>String1d</i>	SLW_VDD_JFET1 (description="SLW_VDD_JFET1", quantity="1")
<i>String1d</i>	SSW_VDD_JFET1 (description="SSW_VDD_JFET1", quantity="1")
<i>String1d</i>	SSW_VDD_JFET2 (description="SSW_VDD_JFET2", quantity="1")
<i>Double1d</i>	SSWJFET1V (description="SSWJFET1V", quantity="V")
<i>Double1d</i>	SSWJFET2V (description="SSWJFET2V", quantity="V")
<i>Double1d</i>	SLWJFET1V (description="SLWJFET1V", quantity="V")
<i>Double1d</i>	SPECHTRV (description="SPECHTRV", quantity="V")
<i>Double1d</i>	TC1TEMP (description="TC1TEMP", quantity="V")
<i>Double1d</i>	TC2TEMP (description="TC2TEMP", quantity="V")
<i>Double1d</i>	TC3TEMP (description="TC3TEMP", quantity="V")
<i>Double1d</i>	BIASP5V (description="BIASP5V", quantity="V")
<i>Double1d</i>	BIASP9V (description="BIASP9V", quantity="V")
<i>Double1d</i>	BIASM9V (description="BIASM9V", quantity="V")
<i>Int1d</i>	OBSVER (description="OBSVER", quantity="1")
<i>Short1d</i>	OBSVER1 (description="OBSVER1", quantity="1")
<i>Short1d</i>	OBSVER2 (description="OBSVER2", quantity="1")

<i>String1d</i>	OBSVER3 (description="OBSVER3", quantity="1")
<i>String1d</i>	TMMODE (description="TMMODE", quantity="1")
<i>Int1d</i>	FIFO_DF_FLAG (description="FIFO_DF_FLAG", quantity="1")
<i>Double1d</i>	PLIAP5V (description="PLIAP5V", quantity="V")
<i>Double1d</i>	PLIAP9V (description="PLIAP9V", quantity="V")
<i>Double1d</i>	PLIAM9V (description="PLIAM9V", quantity="V")
<i>Double1d</i>	SLIAP5V (description="SLIAP5V", quantity="V")
<i>Double1d</i>	SLIAP9V (description="SLIAP9V", quantity="V")
<i>Double1d</i>	SLIAM9V (description="SLIAM9V", quantity="V")
<i>Double1d</i>	LIAP9TEMP (description="LIAP9TEMP", quantity="K")
<i>Double1d</i>	LIAP8TEMP (description="LIAP8TEMP", quantity="K")
<i>Double1d</i>	LIAP7TEMP (description="LIAP7TEMP", quantity="K")
<i>Double1d</i>	LIAP6TEMP (description="LIAP6TEMP", quantity="K")
<i>Double1d</i>	LIAP5TEMP (description="LIAP5TEMP", quantity="K")
<i>Double1d</i>	LIAP4TEMP (description="LIAP4TEMP", quantity="K")
<i>Double1d</i>	LIAP3TEMP (description="LIAP3TEMP", quantity="K")
<i>Double1d</i>	LIAP2TEMP (description="LIAP2TEMP", quantity="K")
<i>Double1d</i>	LIAP1TEMP (description="LIAP1TEMP", quantity="K")
<i>Double1d</i>	LIAS1TEMP (description="LIAS1TEMP", quantity="K")
<i>Double1d</i>	LIAS2TEMP (description="LIAS2TEMP", quantity="K")
<i>Double1d</i>	LIAS3TEMP (description="LIAS3TEMP", quantity="K")
<i>Double1d</i>	BIASTEMP (description="BIASTEMP", quantity="K")
<i>Double1d</i>	DAQTEMP (description="DAQTEMP", quantity="K")
<i>Int1d</i>	LIASSTAT (description="LIASSTAT", quantity="1")
<i>String1d</i>	LIAP1STAT (description="LIAP1STAT", quantity="1")
<i>String1d</i>	LIAP2STAT (description="LIAP2STAT", quantity="1")
<i>String1d</i>	LIAP3STAT (description="LIAP3STAT", quantity="1")
<i>String1d</i>	LIAP4STAT (description="LIAP4STAT", quantity="1")
<i>String1d</i>	LIAP5STAT (description="LIAP5STAT", quantity="1")
<i>String1d</i>	LIAP6STAT (description="LIAP6STAT", quantity="1")
<i>String1d</i>	LIAP7STAT (description="LIAP7STAT", quantity="1")
<i>String1d</i>	LIAP8STAT (description="LIAP8STAT", quantity="1")
<i>String1d</i>	LIAP9STAT (description="LIAP9STAT", quantity="1")
<i>String1d</i>	LIAS1STAT (description="LIAS1STAT", quantity="1")
<i>String1d</i>	LIAS2STAT (description="LIAS2STAT", quantity="1")
<i>String1d</i>	LIAS3STAT (description="LIAS3STAT", quantity="1")
<i>Int1d</i>	MCUIFSTAT (description="MCUIFSTAT", quantity="1")
<i>Int1d</i>	MCUIFCTRL (description="MCUIFCTRL", quantity="1")
<i>Int1d</i>	MCUSSDEL (description="MCUSSDEL", quantity="1")
<i>Double1d</i>	MCUP5V (description="MCUP5V", quantity="V")
<i>Double1d</i>	MCUP14V (description="MCUP14V", quantity="V")
<i>Double1d</i>	MCUM14V (description="MCUM14V", quantity="V")

<i>DoubleId</i>	MCUP15V (description="MCUP15V", quantity="V")
<i>DoubleId</i>	MCUM15V (description="MCUM15V", quantity="V")
<i>DoubleId</i>	MCUMACTEMP (description="MCUMACTEMP", quantity="K")
<i>DoubleId</i>	MCUSMECTEMP (description="MCUSMECTEMP", quantity="K")
<i>DoubleId</i>	MCUBSMTEMP (description="MCUBSMTEMP", quantity="K")
<i>StringId</i>	MCUERR (description="MCUERR", quantity="1")
<i>IntId</i>	MCUSCHEDCNTLSW (description="MCUSCHEDCNTLSW", quantity="1")
<i>IntId</i>	MCUSCHEDCNTMSW (description="MCUSCHEDCNTMSW", quantity="1")
<i>IntId</i>	MCUTM10TSAMPLE (description="MCUTM10TSAMPLE", quantity="1")
<i>StringId</i>	MCUFRAMESTART (description="MCUFRAMESTART", quantity="1")
<i>IntId</i>	MCUTM12TSAMPLE (description="MCUTM12TSAMPLE", quantity="1")
<i>IntId</i>	MCUFRAMES (description="MCUFRAMES", quantity="1")
<i>IntId</i>	MCUTM14TSAMPLE (description="MCUTM14TSAMPLE", quantity="1")
<i>IntId</i>	MCUTM15TSAMPLE (description="MCUTM15TSAMPLE", quantity="1")
<i>StringId</i>	MCUTMSTATUS (description="MCUTMSTATUS", quantity="1")
<i>StringId</i>	MCUBOOTSTAT (description="MCUBOOTSTAT", quantity="1")
<i>IntId</i>	MCUDLOADCONF (description="MCUDLOADCONF", quantity="1")
<i>IntId</i>	SMECLOSTCOUNT (description="SMECLOSTCOUNT", quantity="1")
<i>IntId</i>	SMECENCPWR (description="SMECENCPWR", quantity="1")
<i>StringId</i>	SMECLVDPWR (description="SMECLVDPWR", quantity="1")
<i>StringId</i>	SMECLATCHSTAT (description="SMECLATCHSTAT", quantity="1")
<i>StringId</i>	SMECLOOPMODE (description="SMECLOOPMODE", quantity="1")
<i>DoubleId</i>	SCANSTART (description="SCANSTART", quantity="cm")
<i>DoubleId</i>	SCANEND (description="SCANEND", quantity="cm")
<i>IntId</i>	SCANFSPEED (description="SCANFSPEED", quantity="1")
<i>IntId</i>	SCANS (description="SCANS", quantity="1")
<i>StringId</i>	SCANMODE (description="SCANMODE", quantity="1")
<i>IntId</i>	SMECKP (description="SMECKP", quantity="1")
<i>IntId</i>	SMECKD (description="SMECKD", quantity="1")
<i>IntId</i>	SMECDFILT (description="SMECDFILT", quantity="1")
<i>IntId</i>	SMECKI (description="SMECKI", quantity="1")
<i>IntId</i>	SMECINTLIMIT (description="SMECINTLIMIT", quantity="1")
<i>IntId</i>	SMECINTTHRESH (description="SMECINTTHRESH", quantity="1")
<i>IntId</i>	SMECRATELIMIT (description="SMECRATELIMIT", quantity="1")
<i>IntId</i>	SMECDFILT2 (description="SMECDFILT2", quantity="1")
<i>IntId</i>	SMECFFGAIN (description="SMECFFGAIN", quantity="1")
<i>IntId</i>	SMECFFOFFSET (description="SMECFFOFFSET", quantity="1")

<i>Int1d</i>	SCANRSPEED (description="SCANRSPEED", quantity="1")
<i>Int1d</i>	SMECBEMFGAIN (description="SMECBEMFGAIN", quantity="1")
<i>Int1d</i>	SMECMOTORRES (description="SMECMOTORRES", quantity="1")
<i>Int1d</i>	SMECMOTORBEMF (description="SMECMOTORBEMF", quantity="1")
<i>Int1d</i>	SMECRATESCALE (description="SMECRATESCALE", quantity="1")
<i>Double1d</i>	SMECLVDTOFFSET (description="SMECLVDTOFFSET", quantity="cm")
<i>Double1d</i>	SMECLVDTSCALE (description="SMECLVDTSCALE", quantity="cm")
<i>String1d</i>	SMECSTAT (description="SMECSTAT", quantity="1")
<i>String1d</i>	SMECFLAG (description="SMECFLAG", quantity="1")
<i>String1d</i>	SMECLVDTSIGN (description="SMECLVDTSIGN", quantity="1")
<i>String1d</i>	SMECINIT (description="SMECINIT", quantity="1")
<i>String1d</i>	SMECSCANDIR (description="SMECSCANDIR", quantity="1")
<i>Short1d</i>	SMECSCANCNT (description="SMECSCANCNT", quantity="1")
<i>Double1d</i>	SMECENCPOSN (description="SMECENCPOSN", quantity="cm")
<i>Int1d</i>	SMECENC SIG1 (description="SMECENC SIG1", quantity="1")
<i>Int1d</i>	SMECENC SIG2 (description="SMECENC SIG2", quantity="1")
<i>Int1d</i>	SMECENC SIG3 (description="SMECENC SIG3", quantity="1")
<i>Double1d</i>	SMECLVDTPOSN (description="SMECLVDTPOSN", quantity="cm")
<i>Int1d</i>	SMECLVDTAC SIG (description="SMECLVDTAC SIG", quantity="1")
<i>Int1d</i>	SMECLVDTD SIG (description="SMECLVDTD SIG", quantity="1")
<i>Double1d</i>	SMECTRAJ POSN (description="SMECTRAJ POSN", quantity="cm")
<i>Int1d</i>	SMECDACVAL (description="SMECDACVAL", quantity="1")
<i>Double1d</i>	SMECPOSNDELTA (description="SMECPOSNDELTA", quantity="cm")
<i>Double1d</i>	SMECENC FINE POSN (description="SMECENC FINE POSN", quantity="cm")
<i>Int1d</i>	SMECMEANSPEED (description="SMECMEANSPEED", quantity="1")
<i>Double1d</i>	SMECSCAN POSNERR (description="SMECSCAN POSNERR", quantity="cm")
<i>Double1d</i>	SMECMOTORCURREN (description="SMECMOTORCURREN", quantity="A")
<i>Double1d</i>	SMECMOTORVOLT (description="SMECMOTORVOLT", quantity="V")
<i>Int1d</i>	SMECENC SIG1AMP (description="SMECENC SIG1AMP", quantity="1")
<i>Int1d</i>	SMECENC SIG1OFF (description="SMECENC SIG1OFF", quantity="1")
<i>Int1d</i>	SMECENC SIG2AMP (description="SMECENC SIG2AMP", quantity="1")
<i>Int1d</i>	SMECENC SIG2OFF (description="SMECENC SIG2OFF", quantity="1")
<i>Int1d</i>	SMECENC SIG3AMP (description="SMECENC SIG3AMP", quantity="1")

<i>Int1d</i>	SMECENC SIG3OFF (description="SMECENC SIG3OFF", quantity="1")
<i>String1d</i>	CHOPSENSPWR (description="CHOPSENSPWR", quantity="1")
<i>String1d</i>	CHOPLOOPMODE (description="CHOPLOOPMODE", quantity="1")
<i>Int1d</i>	CHOPPOSN (description="CHOPPOSN", quantity="1")
<i>Int1d</i>	CHOPPOSN2 (description="CHOPPOSN2", quantity="1")
<i>String1d</i>	BSMMODE (description="BSMMODE", quantity="1")
<i>Int1d</i>	CHOPFFOFFSET (description="CHOPFFOFFSET", quantity="1")
<i>Int1d</i>	CHOPKP (description="CHOPKP", quantity="1")
<i>Int1d</i>	CHOPKD (description="CHOPKD", quantity="1")
<i>Int1d</i>	CHOPKI (description="CHOPKI", quantity="1")
<i>Int1d</i>	CHOPINTREF (description="CHOPINTREF", quantity="1")
<i>Int1d</i>	CHOPINTLIMIT (description="CHOPINTLIMIT", quantity="1")
<i>Int1d</i>	CHOPFFGAIN (description="CHOPFFGAIN", quantity="1")
<i>Int1d</i>	CHOPFFGAINDIFF (description="CHOPFFGAINDIFF", quantity="1")
<i>Int1d</i>	CHOPDIFFTC1 (description="CHOPDIFFTC1", quantity="1")
<i>Int1d</i>	CHOPDIFFTC2 (description="CHOPDIFFTC2", quantity="1")
<i>Int1d</i>	CHOPRATELIMIT (description="CHOPRATELIMIT", quantity="1")
<i>Int1d</i>	CHOPMOTBEMFGAIN (description="CHOPMOTBEMFGAIN", quantity="1")
<i>Int1d</i>	CHOPMOTRES (description="CHOPMOTRES", quantity="1")
<i>Int1d</i>	CHOPMOTIND (description="CHOPMOTIND", quantity="1")
<i>Int1d</i>	CHOPRATESCALE (description="CHOPRATESCALE", quantity="1")
<i>Int1d</i>	CHOPPOSNSCALE (description="CHOPPOSNSCALE", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL1 (description="CHOPBEMFRATFIL1", quantity="1")
<i>Int1d</i>	CHOPBEMFRATFIL2 (description="CHOPBEMFRATFIL2", quantity="1")
<i>Int1d</i>	CHOPJIGGCOUPLE (description="CHOPJIGGCOUPLE", quantity="1")
<i>String1d</i>	BSMSTAT (description="BSMSTAT", quantity="1")
<i>Int1d</i>	CHOPPOSNERR (description="CHOPPOSNERR", quantity="1")
<i>Int1d</i>	CHOPSENSSIG (description="CHOPSENSSIG", quantity="1")
<i>Double1d</i>	CHOPDACVAL (description="CHOPDACVAL", quantity="V")
<i>Double1d</i>	CHOPMOTORCURR (description="CHOPMOTORCURR", quantity="A")
<i>Double1d</i>	CHOPMOTORVOLT (description="CHOPMOTORVOLT", quantity="V")
<i>String1d</i>	JIGGSENSPWR (description="JIGGSENSPWR", quantity="1")
<i>String1d</i>	JIGGLOOPMODE (description="JIGGLOOPMODE", quantity="1")
<i>Int1d</i>	JIGGPOSN (description="JIGGPOSN", quantity="1")
<i>Int1d</i>	JIGGPOSN2 (description="JIGGPOSN2", quantity="1")
<i>Int1d</i>	JIGGFFOFFSET (description="JIGGFFOFFSET", quantity="1")
<i>Int1d</i>	JIGGKP (description="JIGGKP", quantity="1")

<i>Int1d</i>	JIGGKD (description="JIGGKD", quantity="1")
<i>Int1d</i>	JIGGKI (description="JIGGKI", quantity="1")
<i>Int1d</i>	JIGGINTREF (description="JIGGINTREF", quantity="1")
<i>Int1d</i>	JIGGINTLIMIT (description="JIGGINTLIMIT", quantity="1")
<i>Int1d</i>	JIGGFFGAIN (description="JIGGFFGAIN", quantity="1")
<i>Int1d</i>	JIGGFFGAINDIFF (description="JIGGFFGAINDIFF", quantity="1")
<i>Int1d</i>	JIGGDIFFTC1 (description="JIGGDIFFTC1", quantity="1")
<i>Int1d</i>	JIGGDIFFTC2 (description="JIGGDIFFTC2", quantity="1")
<i>Int1d</i>	JIGGRATELIMIT (description="JIGGRATELIMIT", quantity="1")
<i>Int1d</i>	JIGGMOTBEMFGAIN (description="JIGGMOTBEMFGAIN", quantity="1")
<i>Int1d</i>	JIGGMOTRES (description="JIGGMOTRES", quantity="1")
<i>Int1d</i>	JIGGMOTIND (description="JIGGMOTIND", quantity="1")
<i>Int1d</i>	JIGGRATESCALE (description="JIGGRATESCALE", quantity="1")
<i>Int1d</i>	JIGGPOSNSCALE (description="JIGGPOSNSCALE", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL1 (description="JIGGBEMFRATFIL1", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL2 (description="JIGGBEMFRATFIL2", quantity="1")
<i>Int1d</i>	JIGGCHOPCOUPLE (description="JIGGCHOPCOUPLE", quantity="1")
<i>Int1d</i>	JIGGPOSNERR (description="JIGGPOSNERR", quantity="1")
<i>Int1d</i>	JIGGSENSSIG (description="JIGGSENSSIG", quantity="1")
<i>Double1d</i>	JIGGDACVAL (description="JIGGDACVAL", quantity="V")
<i>Double1d</i>	JIGGMOTORCURR (description="JIGGMOTORCURR", quantity="A")
<i>Double1d</i>	JIGGMOTORVOLT (description="JIGGMOTORVOLT", quantity="V")
<i>Int1d</i>	MCUPCKT10PARM05 (description="MCUPCKT10PARM05", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM01 (description="MCUPCKT10PARM01", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM02 (description="MCUPCKT10PARM02", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM03 (description="MCUPCKT10PARM03", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM04 (description="MCUPCKT10PARM04", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM01 (description="MCUPCKT12PARM01", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM02 (description="MCUPCKT12PARM02", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM03 (description="MCUPCKT12PARM03", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM04 (description="MCUPCKT12PARM04", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM05 (description="MCUPCKT12PARM05", quantity="1")

<i>Int1d</i>	MCUPCKT12PARM06 (description="MCUPCKT12PARM06", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM01 (description="MCUPCKT14PARM01", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM02 (description="MCUPCKT14PARM02", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM03 (description="MCUPCKT14PARM03", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM04 (description="MCUPCKT14PARM04", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM05 (description="MCUPCKT14PARM05", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM06 (description="MCUPCKT14PARM06", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM07 (description="MCUPCKT14PARM07", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM08 (description="MCUPCKT14PARM08", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM09 (description="MCUPCKT14PARM09", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM10 (description="MCUPCKT14PARM10", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM11 (description="MCUPCKT14PARM11", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM12 (description="MCUPCKT14PARM12", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM13 (description="MCUPCKT14PARM13", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM14 (description="MCUPCKT14PARM14", quantity="1")
<i>Int1d</i>	SCUIFSTAT (description="SCUIFSTAT", quantity="1")
<i>Int1d</i>	SCUIFCTRL (description="SCUIFCTRL", quantity="1")
<i>Int1d</i>	SCUSSDEL (description="SCUSSDEL", quantity="1")
<i>Int1d</i>	SCUSTAT (description="SCUSTAT", quantity="1")
<i>Int1d</i>	SCUTEMPSTAT (description="SCUTEMPSTAT", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT (description="SCUDCDCSTAT", quantity="1")
<i>String1d</i>	PLIABITSTAT (description="PLIABITSTAT", quantity="1")
<i>String1d</i>	SLIABITSTAT (description="SLIABITSTAT", quantity="1")
<i>String1d</i>	MCUBITSTAT (description="MCUBITSTAT", quantity="1")
<i>Double1d</i>	SCUP5V (description="SCUP5V", quantity="V")
<i>Double1d</i>	SCUP9V (description="SCUP9V", quantity="V")
<i>Double1d</i>	SCUM9V (description="SCUM9V", quantity="V")
<i>Double1d</i>	EVHSV (description="EVHSV", quantity="V")
<i>Double1d</i>	SPHSV (description="SPHSV", quantity="V")
<i>Double1d</i>	TCHTRV (description="TCHTRV", quantity="V")
<i>Double1d</i>	SPHTRV (description="SPHTRV", quantity="V")

<i>Double1d</i>	CCUTEMP (description="CCUTEMP", quantity="K")
<i>Double1d</i>	TCUTEMP (description="TCUTEMP", quantity="K")
<i>Double1d</i>	PSUTEMP1 (description="PSUTEMP1", quantity="K")
<i>Int1d</i>	SCUFRAMECONF (description="SCUFRAMECONF", quantity="1")
<i>Int1d</i>	SCUFRAMES (description="SCUFRAMES", quantity="1")
<i>Int1d</i>	SCUFRAMESTAT (description="SCUFRAMESTAT", quantity="1")
<i>Int1d</i>	SCUCTRL (description="SCUCTRL", quantity="1")
<i>Double1d</i>	PCALV (description="PCALV", quantity="V")
<i>Double1d</i>	SCAL2V (description="SCAL2V", quantity="V")
<i>Double1d</i>	SCAL4V (description="SCAL4V", quantity="V")
<i>Double1d</i>	SCUCHT2_5V (description="SCUCHT2_5V", quantity="V")
<i>Double1d</i>	SCUCHTREF (description="SCUCHTREF", quantity="V")
<i>Double1d</i>	SCUCHTGND (description="SCUCHTGND", quantity="V")
<i>Double1d</i>	PCALCURR (description="PCALCURR", quantity="A")
<i>Double1d</i>	SCAL2CURR (description="SCAL2CURR", quantity="A")
<i>Double1d</i>	SCAL4CURR (description="SCAL4CURR", quantity="A")
<i>Double1d</i>	PSUTEMP2 (description="PSUTEMP2", quantity="K")
<i>String1d</i>	SUBKSTAT (description="SUBKSTAT", quantity="1")
<i>Double1d</i>	PUMPHTRTEMP (description="PUMPHTRTEMP", quantity="K")
<i>Double1d</i>	PUMPHSTEMP (description="PUMPHSTEMP", quantity="K")
<i>Double1d</i>	EVAPHSTEMP (description="EVAPHSTEMP", quantity="K")
<i>Double1d</i>	SHUNTTEMP (description="SHUNTTEMP", quantity="K")
<i>Double1d</i>	EMCFILTEMP (description="EMCFILTEMP", quantity="K")
<i>Double1d</i>	SL0TEMP (description="SL0TEMP", quantity="K")
<i>Double1d</i>	PL0TEMP (description="PL0TEMP", quantity="K")
<i>Double1d</i>	OPTTEMP (description="OPTTEMP", quantity="K")
<i>Double1d</i>	BAFTEMP (description="BAFTEMP", quantity="K")
<i>Double1d</i>	BSMIFTEMP (description="BSMIFTEMP", quantity="K")
<i>Double1d</i>	SCAL2TEMP (description="SCAL2TEMP", quantity="K")
<i>Double1d</i>	SCAL4TEMP (description="SCAL4TEMP", quantity="K")
<i>Double1d</i>	SCALTEMP (description="SCALTEMP", quantity="K")
<i>Double1d</i>	SMECIFTEMP (description="SMECIFTEMP", quantity="K")
<i>Double1d</i>	SMECTEMP (description="SMECTEMP", quantity="K")
<i>Double1d</i>	BSMTEMP (description="BSMTEMP", quantity="K")
<i>Double1d</i>	SUBKTEMP (description="SUBKTEMP", quantity="K")
<i>Double1d</i>	SCUTHTREF (description="SCUTHTREF", quantity="V")
<i>Double1d</i>	SCUTHTGND (description="SCUTHTGND", quantity="V")
<i>Int1d</i>	LOSTTCBLOCK (description="LOSTTCBLOCK", quantity="1")
<i>Int1d</i>	LOSTEVBLOCK (description="LOSTEVBLOCK", quantity="1")
<i>Int1d</i>	LOSTHKBLOCK (description="LOSTHKBLOCK", quantity="1")
<i>Int1d</i>	LOSTSDBLOCK (description="LOSTSDBLOCK", quantity="1")
<i>Int1d</i>	LOSTNTBLOCK (description="LOSTNTBLOCK", quantity="1")

<i>Int1d</i>	LS_HP_FIFOSTAT (description="LS_HP_FIFOSTAT", quantity="1")
<i>Int1d</i>	LS_LP_FIFOSTAT (description="LS_LP_FIFOSTAT", quantity="1")
<i>String1d</i>	MCUPCKT10STAT (description="MCUPCKT10STAT", quantity="1")
<i>String1d</i>	MCUPCKT12STAT (description="MCUPCKT12STAT", quantity="1")
<i>String1d</i>	MCUPCKT14STAT (description="MCUPCKT14STAT", quantity="1")
<i>String1d</i>	MCUPCKT15STAT (description="MCUPCKT15STAT", quantity="1")
<i>String1d</i>	MCURAMINTEGRITY (description="MCURAMINTEGRITY", quantity="1")
<i>String1d</i>	MCURAMTSTPROG (description="MCURAMTSTPROG", quantity="1")
<i>String1d</i>	MCURAMTSTDATA (description="MCURAMTSTDATA", quantity="1")
<i>String1d</i>	MCUPROM2RAMCOPY (description="MCUPROM2RAMCOPY", quantity="1")
<i>String1d</i>	MCUBOOTMODE (description="MCUBOOTMODE", quantity="1")
<i>Int1d</i>	SMECSELECTTAB (description="SMECSELECTTAB", quantity="1")
<i>Int1d</i>	CREC_STEP (description="CREC_STEP", quantity="1")
<i>Int1d</i>	PTC_STAGE (description="PTC_STAGE", quantity="1")
<i>Int1d</i>	SCAL_STAGE (description="SCAL_STAGE", quantity="1")
<i>Int1d</i>	JIGGLE_STEP (description="JIGGLE_STEP", quantity="1")
<i>Int1d</i>	LOSTRPBLOCK (description="LOSTRPBLOCK", quantity="1")
<i>Int1d</i>	LIAFAILCOUNT (description="LIAFAILCOUNT", quantity="1")
<i>Int1d</i>	SCANRES (description="SCANRES", quantity="1")
<i>Int1d</i>	VM_SMECSIG1OFF (description="VM_SMECSIG1OFF", quantity="1")
<i>Int1d</i>	VM_SMECSIG2OFF (description="VM_SMECSIG2OFF", quantity="1")
<i>Int1d</i>	TABLE7_09_LWORD (description="TABLE7_09_LWORD", quantity="1")
<i>String1d</i>	PTC_GET_COMMAND (description="PTC_GET_COMMAND", quantity="1")
<i>String1d</i>	SCAL_GET_COMMAND (description="SCAL_GET_COMMAND", quantity="1")
<i>Long1d</i>	TABLE7_12 (description="TABLE7_12", quantity="1")
<i>String1d</i>	HK_MON_STATUS (description="HK_MON_STATUS", quantity="1")
<i>Int1d</i>	CHOPJIGG_DCOUPLE (description="CHOPJIGG_DCOUPLE", quantity="1")
<i>Int1d</i>	HK_02 (description="HK_02", quantity="1")
<i>Int1d</i>	HK_03 (description="HK_03", quantity="1")
<i>Int1d</i>	HK_04 (description="HK_04", quantity="1")
<i>Int1d</i>	HK_05 (description="HK_05", quantity="1")
<i>Int1d</i>	HK_06 (description="HK_06", quantity="1")
<i>Int1d</i>	HK_07 (description="HK_07", quantity="1")
<i>Int1d</i>	HK_08 (description="HK_08", quantity="1")
<i>Int1d</i>	HK_09 (description="HK_09", quantity="1")

<i>Int1d</i>	HK_10 (description="HK_10", quantity="1")
<i>Int1d</i>	HK_11 (description="HK_11", quantity="1")
<i>Int1d</i>	HK_12 (description="HK_12", quantity="1")
<i>Int1d</i>	HK_13 (description="HK_13", quantity="1")
<i>Int1d</i>	HK_14 (description="HK_14", quantity="1")
<i>Int1d</i>	HK_15 (description="HK_15", quantity="1")
<i>Int1d</i>	HK_16 (description="HK_16", quantity="1")
<i>Int1d</i>	HK_17 (description="HK_17", quantity="1")
<i>Int1d</i>	HK_18 (description="HK_18", quantity="1")
<i>Int1d</i>	HK_19 (description="HK_19", quantity="1")
<i>Int1d</i>	HK_20 (description="HK_20", quantity="1")
<i>Int1d</i>	HK_21 (description="HK_21", quantity="1")
<i>Int1d</i>	HK_22 (description="HK_22", quantity="1")
<i>Int1d</i>	HK_23 (description="HK_23", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.45. SPIRE Product Level 0.5 - Spectrometer Detector Timeline

<i>product (type="SDT", description="Spectrometer Detector Timeline")</i>	
<i>Meta-data</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")

LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	jiggId (description="Jiggle ID")
LongParameter	pointNum (description="Pointing number")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
DoubleParameter	biasFreq (description="Bias frequency", quantity="Hz")
StringParameter	elecSide (description="Electronic side", quantity="Hz")
StringParameter	modelName (description="Model name attached to this product", quantity="Hz")
StringParameter	formatVersion (description="Version of product format", quantity="Hz")
StringParameter	missionConfig (description="Mission configuration", quantity="Hz")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")

DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in the engineering conversion", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
StringParameter	signalTable (description="Name of the signal table", quantity="km s-1")
LongParameter	maskDead (description="Mask value for dead channel", quantity="km s-1")
LongParameter	maskMaster (description="Mask value for master bit", quantity="km s-1")
LongParameter	maskNoisy (description="Mask value for noisy channel", quantity="km s-1")
LongParameter	maskSlow (description="Mask value for slow channel", quantity="km s-1")
BooleanParameter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="km s-1")
DoubleParameter	ratioTruncatedSSW (description="Largest ratio of number of out-of-range samples to total number of samples in SSW data", quantity="km s-1")
DoubleParameter	ratioTruncatedSLW (description="Largest ratio of number of out-of-range samples to total number of samples in SLW data", quantity="km s-1")
LongParameter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="km s-1")

LongParameter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="km s-1")
LongParameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="km s-1")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="km s-1")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="km s-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
DoubleParameter	slwBiasAmpl (description="SLW bias amplitude", quantity="V")
DoubleParameter	sswBiasAmpl (description="SSW bias amplitude", quantity="V")
DoubleParameter	slwBiasPhase (description="SLW bias phase", quantity="rad")
DoubleParameter	sswBiasPhase (description="SSW bias phase", quantity="rad")
BooleanParameter	rcRollApp (description="RC roll correction applied", quantity="rad")
DoubleParameter	subkTempDrift (description="Drift measured by the SubK temperature probe", quantity="K")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="K")
Columns	
table dataset	(name="voltage", description="Voltages table")
Metadata	
Columns	
DoubleId	sampleTime (description="Sample time", quantity="TAI")
FloatId	SSWR1 (description="SPECFARRAY001", quantity="V")
FloatId	SSWA4 (description="SPECFARRAY002", quantity="V")
FloatId	SSWA3 (description="SPECFARRAY003", quantity="V")
FloatId	SSWA2 (description="SPECFARRAY004", quantity="V")
FloatId	SSWA1 (description="SPECFARRAY005", quantity="V")
FloatId	SSWDP1 (description="SPECFARRAY006", quantity="V")
FloatId	SSWB3 (description="SPECFARRAY007", quantity="V")
FloatId	SSWB2 (description="SPECFARRAY008", quantity="V")
FloatId	SSWB1 (description="SPECFARRAY009", quantity="V")
FloatId	SSWC3 (description="SPECFARRAY010", quantity="V")
FloatId	SSWC2 (description="SPECFARRAY011", quantity="V")
FloatId	SSWC1 (description="SPECFARRAY012", quantity="V")

<i>FloatId</i>	SSWD3 (description="SPECFARRAY013", quantity="V")
<i>FloatId</i>	SSWD2 (description="SPECFARRAY014", quantity="V")
<i>FloatId</i>	SSWD1 (description="SPECFARRAY015", quantity="V")
<i>FloatId</i>	SSWE3 (description="SPECFARRAY016", quantity="V")
<i>FloatId</i>	SSWE2 (description="SPECFARRAY017", quantity="V")
<i>FloatId</i>	SSWE1 (description="SPECFARRAY018", quantity="V")
<i>FloatId</i>	SSWF3 (description="SPECFARRAY019", quantity="V")
<i>FloatId</i>	SSWF2 (description="SPECFARRAY020", quantity="V")
<i>FloatId</i>	SSWF1 (description="SPECFARRAY021", quantity="V")
<i>FloatId</i>	SSWG1 (description="SPECFARRAY022", quantity="V")
<i>FloatId</i>	SSWT1 (description="SPECFARRAY023", quantity="V")
<i>FloatId</i>	SSWG2 (description="SPECFARRAY024", quantity="V")
<i>FloatId</i>	SSWE5 (description="SPECFARRAY025", quantity="V")
<i>FloatId</i>	SSWE4 (description="SPECFARRAY026", quantity="V")
<i>FloatId</i>	SSWD7 (description="SPECFARRAY027", quantity="V")
<i>FloatId</i>	SSWD6 (description="SPECFARRAY028", quantity="V")
<i>FloatId</i>	SSWD5 (description="SPECFARRAY029", quantity="V")
<i>FloatId</i>	SSWD4 (description="SPECFARRAY030", quantity="V")
<i>FloatId</i>	SSWC6 (description="SPECFARRAY031", quantity="V")
<i>FloatId</i>	SSWC5 (description="SPECFARRAY032", quantity="V")
<i>FloatId</i>	SSWC4 (description="SPECFARRAY033", quantity="V")
<i>FloatId</i>	SSWB5 (description="SPECFARRAY034", quantity="V")
<i>FloatId</i>	SSWB4 (description="SPECFARRAY035", quantity="V")
<i>FloatId</i>	SSWT2 (description="SPECFARRAY036", quantity="V")
<i>FloatId</i>	SSWG3 (description="SPECFARRAY037", quantity="V")
<i>FloatId</i>	SSWG4 (description="SPECFARRAY038", quantity="V")
<i>FloatId</i>	SSWDP2 (description="SPECFARRAY039", quantity="V")
<i>FloatId</i>	SSWF5 (description="SPECFARRAY040", quantity="V")
<i>FloatId</i>	SSWF4 (description="SPECFARRAY041", quantity="V")
<i>FloatId</i>	SSWE6 (description="SPECFARRAY042", quantity="V")
<i>FloatId</i>	SLWR1 (description="SPECFARRAY049", quantity="V")
<i>FloatId</i>	SLWT1 (description="SPECFARRAY050", quantity="V")
<i>FloatId</i>	SLWC1 (description="SPECFARRAY051", quantity="V")
<i>FloatId</i>	SLWDP1 (description="SPECFARRAY052", quantity="V")
<i>FloatId</i>	SLWB1 (description="SPECFARRAY053", quantity="V")
<i>FloatId</i>	SLWD1 (description="SPECFARRAY054", quantity="V")
<i>FloatId</i>	SLWE1 (description="SPECFARRAY055", quantity="V")
<i>FloatId</i>	SLWA1 (description="SPECFARRAY056", quantity="V")
<i>FloatId</i>	SLWC2 (description="SPECFARRAY057", quantity="V")
<i>FloatId</i>	SLWD2 (description="SPECFARRAY058", quantity="V")
<i>FloatId</i>	SLWB2 (description="SPECFARRAY059", quantity="V")
<i>FloatId</i>	SLWE2 (description="SPECFARRAY060", quantity="V")

<i>FloatId</i>	SLWA2 (description="SPECFARRAY061", quantity="V")
<i>FloatId</i>	SLWC3 (description="SPECFARRAY062", quantity="V")
<i>FloatId</i>	SLWD3 (description="SPECFARRAY063", quantity="V")
<i>FloatId</i>	SLWB3 (description="SPECFARRAY064", quantity="V")
<i>FloatId</i>	SLWE3 (description="SPECFARRAY065", quantity="V")
<i>FloatId</i>	SLWC4 (description="SPECFARRAY066", quantity="V")
<i>FloatId</i>	SLWDP2 (description="SPECFARRAY067", quantity="V")
<i>FloatId</i>	SLWD4 (description="SPECFARRAY068", quantity="V")
<i>FloatId</i>	SLWC5 (description="SPECFARRAY069", quantity="V")
<i>FloatId</i>	SLWB4 (description="SPECFARRAY070", quantity="V")
<i>FloatId</i>	SLWA3 (description="SPECFARRAY071", quantity="V")
<i>FloatId</i>	SLWT2 (description="SPECFARRAY072", quantity="V")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="resistance", description="Resistances table")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="quality", description="Quality control metric quantities")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="temperature", description="Temperature")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.46. SPIRE Product Level 0.5 - Mechanism Control Unit Engineering Timeline

<i>product (type="MCUET", description="Mechanism Control Unit Engineering Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")

DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in the engineering conversion", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
LongParameter	maskMaster (description="Mask value for master bit", quantity="km s-1")

DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="km s-1")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="km s-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="ms/min")
Columns	
table dataset	(name="signal", description="Signal timelines")
Metadata	
Columns	
Double1d	sampleTime (description="Sample time", quantity="TAI")
Double1d	SMECENCPOSN (description="MCUENGP01", quantity="cm")
Int1d	SMECENC SIG1 (description="MCUENGP02", quantity="1")
Int1d	SMECENC SIG2 (description="MCUENGP03", quantity="1")
Double1d	SMECENC FINEPOSN (description="MCUENGP04", quantity="cm")
Int1d	SMECLVDTDCSIG (description="MCUENGP05", quantity="1")
Int1d	SMECLVDTAC SIG (description="MCUENGP06", quantity="1")
Double1d	SMECMOTORCURRE (description="MCUENGP07", quantity="A")
Double1d	SMECMOTORVOLT (description="MCUENGP08", quantity="V")
Int1d	SMECENC SIG2AMP (description="MCUENGP09", quantity="1")
Double1d	SMECSCANPOSNERR (description="MCUENGP10", quantity="cm")
Int1d	SMECENC SIG1AMP (description="MCUENGP11", quantity="1")
Int1d	SMECMEANSPEED (description="MCUENGP12", quantity="1")
Int1d	SMECDACVAL (description="MCUENGP13", quantity="1")
Double1d	SMECLVDTPOSN (description="MCUENGP14", quantity="cm")
Long1d	transmTime (description="MCUENGFRA METIME", quantity="1")
	()
table dataset	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
composite dataset	Dataset similar to the one above with (name="History", description="History of product")

5.2.47. SPIRE Product Level 0.5 - Spectrometer Offset Timeline

product (type="SOT", description="Spectrometer Offset Timeline")	
Metadata	

StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")

StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in the engineering conversion", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
LongParameter	maskMaster (description="Mask value for master bit", quantity="km s-1")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="km s-1")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="km s-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="ms/min")
<i>Columns</i>	
<i>table dataset</i>	(name="signal", description="Signal timelines")
<i>Metadata</i>	
<i>Columns</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>IntId</i>	SSWR1 (description="SPECOFF001", quantity="1")
<i>IntId</i>	SSWA4 (description="SPECOFF002", quantity="1")
<i>IntId</i>	SSWA3 (description="SPECOFF003", quantity="1")
<i>IntId</i>	SSWA2 (description="SPECOFF004", quantity="1")
<i>IntId</i>	SSWA1 (description="SPECOFF005", quantity="1")
<i>IntId</i>	SSWD1 (description="SPECOFF006", quantity="1")
<i>IntId</i>	SSWB3 (description="SPECOFF007", quantity="1")
<i>IntId</i>	SSWB2 (description="SPECOFF008", quantity="1")
<i>IntId</i>	SSWB1 (description="SPECOFF009", quantity="1")
<i>IntId</i>	SSWC3 (description="SPECOFF010", quantity="1")
<i>IntId</i>	SSWC2 (description="SPECOFF011", quantity="1")
<i>IntId</i>	SSWC1 (description="SPECOFF012", quantity="1")
<i>IntId</i>	SSWD3 (description="SPECOFF013", quantity="1")
<i>IntId</i>	SSWD2 (description="SPECOFF014", quantity="1")
<i>IntId</i>	SSWD1 (description="SPECOFF015", quantity="1")
<i>IntId</i>	SSWE3 (description="SPECOFF016", quantity="1")
<i>IntId</i>	SSWE2 (description="SPECOFF017", quantity="1")
<i>IntId</i>	SSWE1 (description="SPECOFF018", quantity="1")

<i>Int1d</i>	SSWF3 (description="SPECOFF019", quantity="1")
<i>Int1d</i>	SSWF2 (description="SPECOFF020", quantity="1")
<i>Int1d</i>	SSWF1 (description="SPECOFF021", quantity="1")
<i>Int1d</i>	SSWG1 (description="SPECOFF022", quantity="1")
<i>Int1d</i>	SSWT1 (description="SPECOFF023", quantity="1")
<i>Int1d</i>	SSWG2 (description="SPECOFF024", quantity="1")
<i>Int1d</i>	SSWE5 (description="SPECOFF025", quantity="1")
<i>Int1d</i>	SSWE4 (description="SPECOFF026", quantity="1")
<i>Int1d</i>	SSWD7 (description="SPECOFF027", quantity="1")
<i>Int1d</i>	SSWD6 (description="SPECOFF028", quantity="1")
<i>Int1d</i>	SSWD5 (description="SPECOFF029", quantity="1")
<i>Int1d</i>	SSWD4 (description="SPECOFF030", quantity="1")
<i>Int1d</i>	SSWC6 (description="SPECOFF031", quantity="1")
<i>Int1d</i>	SSWC5 (description="SPECOFF032", quantity="1")
<i>Int1d</i>	SSWC4 (description="SPECOFF033", quantity="1")
<i>Int1d</i>	SSWB5 (description="SPECOFF034", quantity="1")
<i>Int1d</i>	SSWB4 (description="SPECOFF035", quantity="1")
<i>Int1d</i>	SSWT2 (description="SPECOFF036", quantity="1")
<i>Int1d</i>	SSWG3 (description="SPECOFF037", quantity="1")
<i>Int1d</i>	SSWG4 (description="SPECOFF038", quantity="1")
<i>Int1d</i>	SSWDP2 (description="SPECOFF039", quantity="1")
<i>Int1d</i>	SSWF5 (description="SPECOFF040", quantity="1")
<i>Int1d</i>	SSWF4 (description="SPECOFF041", quantity="1")
<i>Int1d</i>	SSWE6 (description="SPECOFF042", quantity="1")
<i>Int1d</i>	SSWN1 (description="SPECOFF043", quantity="1")
<i>Int1d</i>	SSWN2 (description="SPECOFF044", quantity="1")
<i>Int1d</i>	SSWN3 (description="SPECOFF045", quantity="1")
<i>Int1d</i>	SSWN4 (description="SPECOFF046", quantity="1")
<i>Int1d</i>	SSWN5 (description="SPECOFF047", quantity="1")
<i>Int1d</i>	SSWN6 (description="SPECOFF048", quantity="1")
<i>Int1d</i>	SLWR1 (description="SPECOFF049", quantity="1")
<i>Int1d</i>	SLWT1 (description="SPECOFF050", quantity="1")
<i>Int1d</i>	SLWC1 (description="SPECOFF051", quantity="1")
<i>Int1d</i>	SLWDP1 (description="SPECOFF052", quantity="1")
<i>Int1d</i>	SLWB1 (description="SPECOFF053", quantity="1")
<i>Int1d</i>	SLWD1 (description="SPECOFF054", quantity="1")
<i>Int1d</i>	SLWE1 (description="SPECOFF055", quantity="1")
<i>Int1d</i>	SLWA1 (description="SPECOFF056", quantity="1")
<i>Int1d</i>	SLWC2 (description="SPECOFF057", quantity="1")
<i>Int1d</i>	SLWD2 (description="SPECOFF058", quantity="1")
<i>Int1d</i>	SLWB2 (description="SPECOFF059", quantity="1")
<i>Int1d</i>	SLWE2 (description="SPECOFF060", quantity="1")

<i>Int1d</i>	SLWA2 (description="SPECOFF061", quantity="1")
<i>Int1d</i>	SLWC3 (description="SPECOFF062", quantity="1")
<i>Int1d</i>	SLWD3 (description="SPECOFF063", quantity="1")
<i>Int1d</i>	SLWB3 (description="SPECOFF064", quantity="1")
<i>Int1d</i>	SLWE3 (description="SPECOFF065", quantity="1")
<i>Int1d</i>	SLWC4 (description="SPECOFF066", quantity="1")
<i>Int1d</i>	SLWDP2 (description="SPECOFF067", quantity="1")
<i>Int1d</i>	SLWD4 (description="SPECOFF068", quantity="1")
<i>Int1d</i>	SLWC5 (description="SPECOFF069", quantity="1")
<i>Int1d</i>	SLWB4 (description="SPECOFF070", quantity="1")
<i>Int1d</i>	SLWA3 (description="SPECOFF071", quantity="1")
<i>Int1d</i>	SLWT2 (description="SPECOFF072", quantity="1")
<i>Int1d</i>	adcFlags (description="SPECOFFADCFLGS", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.48. SPIRE Product Level 0.5 - Beam Steering Mirror Timeline

<i>product (type="BSMT", description="Beam Steering Mirror Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")

StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in the engineering conversion", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
LongParameter	maskMaster (description="Mask value for master bit", quantity="km s-1")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="km s-1")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="km s-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")

DateParameter	slewTime (description="Scheduled start time of the slew", quantity="ms/min")
Columns	
table dataset	(name="signal", description="Signal timelines")
Metadata	
Columns	
DoubleId	sampleTime (description="Sample time", quantity="TAI")
IntId	chopSens (description="BSMCHOPSENSSIG", quantity="1")
IntId	chopMotorCurr (description="BSMCHOPMOTORCURR", quantity="1")
IntId	chopMotorVolt (description="BSMCHOPMOTORVOLT", quantity="1")
IntId	jiggSens (description="BSMJIGGSENSSIG", quantity="1")
IntId	jiggMotorCurr (description="BSMJIGGMOTORCURR", quantity="1")
IntId	jiggMotorVolt (description="BSMJIGGMOTORVOLT", quantity="1")
LongId	transmTime (description="BSMTTIME", quantity="1")
	()
table dataset	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
composite dataset	Dataset similar to the one above with (name="History", description="History of product")

5.2.49. SPIRE Product Level 0.5 - Spectrometer Mechanism Timeline

<i>product (type="SMECT", description="Spectrometer Mechanism Timeline")</i>	
Metadata	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")

StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in the engineering conversion", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
LongParameter	maskMaster (description="Mask value for master bit", quantity="km s-1")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="km s-1")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="km s-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")

DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="ms/min")
Columns	
table dataset	(name="signal", description="Signal timelines")
Metadata	
Columns	
DoubleId	sampleTime (description="Sample time", quantity="TAI")
DoubleId	encoderCoarse (description="SMECSELENCPOSN", quantity="cm")
DoubleId	encoderFine (description="SMECSELENCFINEPOSN", quantity="cm")
DoubleId	lvdtPosn (description="SMECSELLVDTPOSN", quantity="cm")
DoubleId	posnError (description="SMECSELPOSNERROR", quantity="cm")
	()
table dataset	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
composite dataset	Dataset similar to the one above with (name="History", description="History of product")

5.2.50. SPIRE Product Level 0.5 - Subsystem Control Unit Timeline

<i>product (type="SCUT", description="Subsystem Control Unit Timeline")</i>	
Metadata	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")

StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in the engineering conversion", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
LongParameter	maskMaster (description="Mask value for master bit", quantity="km s-1")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="km s-1")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="km s-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")

DateParameter	slewTime (description="Scheduled start time of the slew", quantity="ms/min")
Columns	
table dataset	(name="signal", description="Signal timelines")
Metadata	
Columns	
DoubleId	sampleTime (description="Sample time", quantity="TAI")
DoubleId	pumpHTemp (description="SCUPHTEMP", quantity="K")
DoubleId	pumpHSTemp (description="SCUPHSTEMP", quantity="K")
DoubleId	evapHSTemp (description="SCUEVHSTEMP", quantity="K")
DoubleId	shuntTemp (description="SCUSHUNTTEMP", quantity="K")
DoubleId	emcFilTemp (description="SCUEMCFILTEMP", quantity="K")
DoubleId	specL0Temp (description="SCUSL0TEMP", quantity="K")
DoubleId	photL0Temp (description="SCUPL0TEMP", quantity="K")
DoubleId	osbTemp (description="SCUOPTTEMP", quantity="K")
DoubleId	fpuBaffTemp (description="SCUBAFTEMP", quantity="K")
DoubleId	bsmIntTemp (description="SCUBSMIFTEMP", quantity="K")
DoubleId	scal2Temp (description="SCUSCAL2TEMP", quantity="K")
DoubleId	scal4Temp (description="SCUSCAL4TEMP", quantity="K")
DoubleId	scalFlanTemp (description="SCUSCALTEMP", quantity="K")
DoubleId	smecIntTemp (description="SCUSMECIFTEMP", quantity="K")
DoubleId	smecTemp (description="SCUSMECTEMP", quantity="K")
DoubleId	bsmTemp (description="SCUBSMTEMP", quantity="K")
DoubleId	ceSubKTemp (description="SCUSUBKTEMP", quantity="K")
DoubleId	tchVolt (description="SCUTCHTRV", quantity="V")
DoubleId	pcalCurr (description="SCUPCALCARR", quantity="A")
DoubleId	pcalVolt (description="SCUPCALV", quantity="V")
DoubleId	scal2Curr (description="SCUSCAL2CURR", quantity="A")
DoubleId	scal2Volt (description="SCUSCAL2V", quantity="V")
DoubleId	scal4Curr (description="SCUSCAL4CURR", quantity="A")
DoubleId	scal4Volt (description="SCUSCAL4V", quantity="V")
IntId	adcFlags (description="SCUADC_FLAGS", quantity="1")
	()
table dataset	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
composite dataset	Dataset similar to the one above with (name="History", description="History of product")

5.2.51. SPIRE Product Level 0.5 - Spectrometer Detector Timeline

<i>product (type="SDT", description="Spectrometer Detector Timeline")</i>	
<i>Metada- ta</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")

LongParameter	jiggId (description="Jiggle ID")
LongParameter	pointNum (description="Pointing number")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
DoubleParameter	biasFreq (description="Bias frequency", quantity="Hz")
StringParameter	elecSide (description="Electronic side", quantity="Hz")
StringParameter	modelName (description="Model name attached to this product", quantity="Hz")
StringParameter	formatVersion (description="Version of product format", quantity="Hz")
StringParameter	missionConfig (description="Mission configuration", quantity="Hz")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in the engineering conversion", quantity="km s-1")

StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
StringParameter	signalTable (description="Name of the signal table", quantity="km s-1")
LongParameter	maskDead (description="Mask value for dead channel", quantity="km s-1")
LongParameter	maskMaster (description="Mask value for master bit", quantity="km s-1")
LongParameter	maskNoisy (description="Mask value for noisy channel", quantity="km s-1")
LongParameter	maskSlow (description="Mask value for slow channel", quantity="km s-1")
BooleanParameter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="km s-1")
DoubleParameter	ratioTruncatedSSW (description="Largest ratio of number of out-of-range samples to total number of samples in SSW data", quantity="km s-1")
DoubleParameter	ratioTruncatedSLW (description="Largest ratio of number of out-of-range samples to total number of samples in SLW data", quantity="km s-1")
LongParameter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="km s-1")
LongParameter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="km s-1")
LongParameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="km s-1")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="km s-1")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="km s-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
DoubleParameter	slwBiasAmpl (description="SLW bias amplitude", quantity="V")
DoubleParameter	sswBiasAmpl (description="SSW bias amplitude", quantity="V")
DoubleParameter	slwBiasPhase (description="SLW bias phase", quantity="rad")
DoubleParameter	sswBiasPhase (description="SSW bias phase", quantity="rad")
BooleanParameter	rcRollApp (description="RC roll correction applied", quantity="rad")

DoubleParameter	subkTempDrift (description="Drift measured by the SubK temperature probe", quantity="K")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="K")
DoubleParameter	missingSciData (description="Percentage of missing science data", quantity="K")
Columns	
table dataset	(name="voltage", description="Voltages table")
Metadata	
Columns	
DoubleId	sampleTime (description="Sample time", quantity="TAI")
FloatId	SSWR1 (description="SPECFARRAY001", quantity="V")
FloatId	SSWA4 (description="SPECFARRAY002", quantity="V")
FloatId	SSWA3 (description="SPECFARRAY003", quantity="V")
FloatId	SSWA2 (description="SPECFARRAY004", quantity="V")
FloatId	SSWA1 (description="SPECFARRAY005", quantity="V")
FloatId	SSWDP1 (description="SPECFARRAY006", quantity="V")
FloatId	SSWB3 (description="SPECFARRAY007", quantity="V")
FloatId	SSWB2 (description="SPECFARRAY008", quantity="V")
FloatId	SSWB1 (description="SPECFARRAY009", quantity="V")
FloatId	SSWC3 (description="SPECFARRAY010", quantity="V")
FloatId	SSWC2 (description="SPECFARRAY011", quantity="V")
FloatId	SSWC1 (description="SPECFARRAY012", quantity="V")
FloatId	SSWD3 (description="SPECFARRAY013", quantity="V")
FloatId	SSWD2 (description="SPECFARRAY014", quantity="V")
FloatId	SSWD1 (description="SPECFARRAY015", quantity="V")
FloatId	SSWE3 (description="SPECFARRAY016", quantity="V")
FloatId	SSWE2 (description="SPECFARRAY017", quantity="V")
FloatId	SSWE1 (description="SPECFARRAY018", quantity="V")
FloatId	SSWF3 (description="SPECFARRAY019", quantity="V")
FloatId	SSWF2 (description="SPECFARRAY020", quantity="V")
FloatId	SSWF1 (description="SPECFARRAY021", quantity="V")
FloatId	SSWG1 (description="SPECFARRAY022", quantity="V")
FloatId	SSWT1 (description="SPECFARRAY023", quantity="V")
FloatId	SSWG2 (description="SPECFARRAY024", quantity="V")
FloatId	SSWE5 (description="SPECFARRAY025", quantity="V")
FloatId	SSWE4 (description="SPECFARRAY026", quantity="V")
FloatId	SSWD7 (description="SPECFARRAY027", quantity="V")
FloatId	SSWD6 (description="SPECFARRAY028", quantity="V")
FloatId	SSWD5 (description="SPECFARRAY029", quantity="V")
FloatId	SSWD4 (description="SPECFARRAY030", quantity="V")
FloatId	SSWC6 (description="SPECFARRAY031", quantity="V")

<i>Float1d</i>	SSWC5 (description="SPECFARRAY032", quantity="V")
<i>Float1d</i>	SSWC4 (description="SPECFARRAY033", quantity="V")
<i>Float1d</i>	SSWB5 (description="SPECFARRAY034", quantity="V")
<i>Float1d</i>	SSWB4 (description="SPECFARRAY035", quantity="V")
<i>Float1d</i>	SSWT2 (description="SPECFARRAY036", quantity="V")
<i>Float1d</i>	SSWG3 (description="SPECFARRAY037", quantity="V")
<i>Float1d</i>	SSWG4 (description="SPECFARRAY038", quantity="V")
<i>Float1d</i>	SSWDP2 (description="SPECFARRAY039", quantity="V")
<i>Float1d</i>	SSWF5 (description="SPECFARRAY040", quantity="V")
<i>Float1d</i>	SSWF4 (description="SPECFARRAY041", quantity="V")
<i>Float1d</i>	SSWE6 (description="SPECFARRAY042", quantity="V")
<i>Float1d</i>	SLWR1 (description="SPECFARRAY049", quantity="V")
<i>Float1d</i>	SLWT1 (description="SPECFARRAY050", quantity="V")
<i>Float1d</i>	SLWC1 (description="SPECFARRAY051", quantity="V")
<i>Float1d</i>	SLWDP1 (description="SPECFARRAY052", quantity="V")
<i>Float1d</i>	SLWB1 (description="SPECFARRAY053", quantity="V")
<i>Float1d</i>	SLWD1 (description="SPECFARRAY054", quantity="V")
<i>Float1d</i>	SLWE1 (description="SPECFARRAY055", quantity="V")
<i>Float1d</i>	SLWA1 (description="SPECFARRAY056", quantity="V")
<i>Float1d</i>	SLWC2 (description="SPECFARRAY057", quantity="V")
<i>Float1d</i>	SLWD2 (description="SPECFARRAY058", quantity="V")
<i>Float1d</i>	SLWB2 (description="SPECFARRAY059", quantity="V")
<i>Float1d</i>	SLWE2 (description="SPECFARRAY060", quantity="V")
<i>Float1d</i>	SLWA2 (description="SPECFARRAY061", quantity="V")
<i>Float1d</i>	SLWC3 (description="SPECFARRAY062", quantity="V")
<i>Float1d</i>	SLWD3 (description="SPECFARRAY063", quantity="V")
<i>Float1d</i>	SLWB3 (description="SPECFARRAY064", quantity="V")
<i>Float1d</i>	SLWE3 (description="SPECFARRAY065", quantity="V")
<i>Float1d</i>	SLWC4 (description="SPECFARRAY066", quantity="V")
<i>Float1d</i>	SLWDP2 (description="SPECFARRAY067", quantity="V")
<i>Float1d</i>	SLWD4 (description="SPECFARRAY068", quantity="V")
<i>Float1d</i>	SLWC5 (description="SPECFARRAY069", quantity="V")
<i>Float1d</i>	SLWB4 (description="SPECFARRAY070", quantity="V")
<i>Float1d</i>	SLWA3 (description="SPECFARRAY071", quantity="V")
<i>Float1d</i>	SLWT2 (description="SPECFARRAY072", quantity="V")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="resistance", description="Resistances table")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask time-lines")
	()

<i>table dataset</i>	Dataset similar to the one above with (name="quality", description="Quality control metric quantities")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="temperature", description="Temperature")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.52. SPIRE Product Level 0.5 - Critical House Keeping Timeline

<i>product (type="CHKT", description="Critical House Keeping Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")

DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
StringParameter	origin (description="Site that created the product", quantity="arcsec a-1")
StringParameter	type (description="Product Type Identification", quantity="arcsec a-1")
StringParameter	description (description="Name of this product", quantity="arcsec a-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="arcsec a-1")
StringParameter	level (description="The level of the product", quantity="arcsec a-1")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec a-1")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec a-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="s")
StringParameter	scanSpeed (description="Speed of scan", quantity="s")
BooleanParameter	coolerBurpDetected (description="Indicates a cooler burp", quantity="s")
<i>Columns</i>	
<i>table dataset</i>	(name="signal", description="Signal timelines")
<i>Metadata</i>	
<i>Columns</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>IntId</i>	SID_C (description="SID_C", quantity="1")
<i>LongId</i>	OBSID_C (description="OBSID_C", quantity="1")
<i>LongId</i>	BBID_C (description="BBID_C", quantity="1")
<i>StringId</i>	MODE_C (description="MODE_C", quantity="1")
<i>IntId</i>	STEP_C (description="STEP_C", quantity="1")
<i>IntId</i>	TCRECV_C (description="TCRECV_C", quantity="1")
<i>IntId</i>	TCEXEC_C (description="TCEXEC_C", quantity="1")
<i>StringId</i>	MEMSTAT1_C (description="MEMSTAT1_C", quantity="1")
<i>StringId</i>	MEMSTAT2_C (description="MEMSTAT2_C", quantity="1")
<i>StringId</i>	MEMSTAT3_C (description="MEMSTAT3_C", quantity="1")
<i>StringId</i>	MONSTAT_C (description="MONSTAT_C", quantity="1")
<i>StringId</i>	SCUDCDCSTAT_C (description="SCUDCDCSTAT_C", quantity="1")
<i>StringId</i>	MCUIFSTAT_C (description="MCUIFSTAT_C", quantity="1")
<i>StringId</i>	SCUIFSTAT_C (description="SCUIFSTAT_C", quantity="1")
<i>StringId</i>	PSWJFETSTAT_C (description="PSWJFETSTAT_C", quantity="1")

<i>StringId</i>	PSW_VDD_JFET1_C (description="PSW_VDD_JFET1_C", quantity="1")
<i>StringId</i>	PSW_VDD_JFET2_C (description="PSW_VDD_JFET2_C", quantity="1")
<i>StringId</i>	PSW_VDD_JFET3_C (description="PSW_VDD_JFET3_C", quantity="1")
<i>StringId</i>	PSW_VDD_JFET4_C (description="PSW_VDD_JFET4_C", quantity="1")
<i>StringId</i>	PSW_VDD_JFET5_C (description="PSW_VDD_JFET5_C", quantity="1")
<i>StringId</i>	PSW_VDD_JFET6_C (description="PSW_VDD_JFET6_C", quantity="1")
<i>StringId</i>	PMLWJFETSTAT_C (description="PMLWJFETSTAT_C", quantity="1")
<i>StringId</i>	PMW_VDD_JFET1_C (description="PMW_VDD_JFET1_C", quantity="1")
<i>StringId</i>	PMW_VDD_JFET2_C (description="PMW_VDD_JFET2_C", quantity="1")
<i>StringId</i>	PMW_VDD_JFET3_C (description="PMW_VDD_JFET3_C", quantity="1")
<i>StringId</i>	PMW_VDD_JFET4_C (description="PMW_VDD_JFET4_C", quantity="1")
<i>StringId</i>	PLW_VDD_JFET1_C (description="PLW_VDD_JFET1_C", quantity="1")
<i>StringId</i>	PLW_VDD_JFET2_C (description="PLW_VDD_JFET2_C", quantity="1")
<i>StringId</i>	TC_VDD_JFET_C (description="TC_VDD_JFET_C", quantity="1")
<i>StringId</i>	SPECJFETSTAT_C (description="SPECJFETSTAT_C", quantity="1")
<i>StringId</i>	SLW_VDD_JFET1_C (description="SLW_VDD_JFET1_C", quantity="1")
<i>StringId</i>	SSW_VDD_JFET1_C (description="SSW_VDD_JFET1_C", quantity="1")
<i>StringId</i>	SSW_VDD_JFET2_C (description="SSW_VDD_JFET2_C", quantity="1")
<i>StringId</i>	LIASSTAT_C (description="LIASSTAT_C", quantity="1")
<i>StringId</i>	LIAP1STAT_C (description="LIAP1STAT_C", quantity="1")
<i>StringId</i>	LIAP2STAT_C (description="LIAP2STAT_C", quantity="1")
<i>StringId</i>	LIAP3STAT_C (description="LIAP3STAT_C", quantity="1")
<i>StringId</i>	LIAP4STAT_C (description="LIAP4STAT_C", quantity="1")
<i>StringId</i>	LIAP5STAT_C (description="LIAP5STAT_C", quantity="1")
<i>StringId</i>	LIAP6STAT_C (description="LIAP6STAT_C", quantity="1")
<i>StringId</i>	LIAP7STAT_C (description="LIAP7STAT_C", quantity="1")
<i>StringId</i>	LIAP8STAT_C (description="LIAP8STAT_C", quantity="1")
<i>StringId</i>	LIAP9STAT_C (description="LIAP9STAT_C", quantity="1")
<i>StringId</i>	LIAS1STAT_C (description="LIAS1STAT_C", quantity="1")
<i>StringId</i>	LIAS2STAT_C (description="LIAS2STAT_C", quantity="1")

<i>StringId</i>	LIAS3STAT_C (description="LIAS3STAT_C", quantity="1")
<i>StringId</i>	MCUERR_C (description="MCUERR_C", quantity="1")
<i>StringId</i>	SMECSTAT_C (description="SMECSTAT_C", quantity="1")
<i>StringId</i>	BSMSTAT_C (description="BSMSTAT_C", quantity="1")
<i>StringId</i>	SCUSTAT_C (description="SCUSTAT_C", quantity="1")
<i>DoubleId</i>	SUBKTEMP_C (description="SUBKTEMP_C", quantity="K")
<i>IntId</i>	OBSVER_C (description="OBSVER_C", quantity="1")
<i>ShortId</i>	OBSVER1_C (description="OBSVER1_C", quantity="1")
<i>ShortId</i>	OBSVER2_C (description="OBSVER2_C", quantity="1")
<i>StringId</i>	OBSVER3_C (description="OBSVER3_C", quantity="1")
<i>StringId</i>	CHK_VERS (description="CHK_VERS", quantity="1")
<i>StringId</i>	CHK_TYPE (description="CHK_TYPE", quantity="1")
<i>StringId</i>	CHK_DFHFLAG (description="CHK_DFHFLAG", quantity="1")
<i>ShortId</i>	CHK_APID (description="CHK_APID", quantity="1")
<i>StringId</i>	CHK_SEGFLAG (description="CHK_SEGFLAG", quantity="1")
<i>ShortId</i>	CHK_SSC (description="CHK_SSC", quantity="1")
<i>IntId</i>	CHK_PKTLEN (description="CHK_PKTLEN", quantity="1")
<i>StringId</i>	CHK_PUSVERS (description="CHK_PUSVERS", quantity="1")
<i>ShortId</i>	CHK_PKTTYPE (description="CHK_PKTTYPE", quantity="1")
<i>ShortId</i>	CHK_PKTSTYPE (description="CHK_PKTSTYPE", quantity="1")
<i>LongId</i>	CHK_PKTCTIME (description="CHK_PKTCTIME", quantity="1")
<i>IntId</i>	CHK_PKTFTIME (description="CHK_PKTFTIME", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.53. SPIRE Product Level 0.5 - Nominal House Keeping Timeline

<i>product (type="NHKT", description="Nominal House Keeping Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")

LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
StringParameter	origin (description="Site that created the product", quantity="arcsec a-1")
StringParameter	type (description="Product Type Identification", quantity="arcsec a-1")
StringParameter	description (description="Name of this product", quantity="arcsec a-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="arcsec a-1")
StringParameter	level (description="The level of the product", quantity="arcsec a-1")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec a-1")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec a-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="s")
StringParameter	scanSpeed (description="Speed of scan", quantity="s")
BooleanParameter	coolerBurpDetected (description="Indicates a cooler burp", quantity="s")
<i>Columns</i>	

<i>table dataset</i>	<i>(name="signal", description="Signal timelines")</i>	
<i>Metadata</i>		
<i>Columns</i>		
<i>DoubleId</i>	sampleTime	(description="Sample time", quantity="TAI")
<i>StringId</i>	NHK_VERS	(description="NHK_VERS", quantity="1")
<i>StringId</i>	NHK_TYPE	(description="NHK_TYPE", quantity="1")
<i>StringId</i>	NHK_DFHFLAG	(description="NHK_DFHFLAG", quantity="1")
<i>ShortId</i>	NHK_APID	(description="NHK_APID", quantity="1")
<i>StringId</i>	NHK_SEGFLAG	(description="NHK_SEGFLAG", quantity="1")
<i>ShortId</i>	NHK_SSC	(description="NHK_SSC", quantity="1")
<i>IntId</i>	NHK_PKTLEN	(description="NHK_PKTLEN", quantity="1")
<i>StringId</i>	NHK_PUSVERS	(description="NHK_PUSVERS", quantity="1")
<i>ShortId</i>	NHK_PKTTYPE	(description="NHK_PKTTYPE", quantity="1")
<i>ShortId</i>	NHK_PKTSTYPE	(description="NHK_PKTSTYPE", quantity="1")
<i>LongId</i>	NHK_PKTCTIME	(description="NHK_PKTCTIME", quantity="1")
<i>IntId</i>	NHK_PKTFTIME	(description="NHK_PKTFTIME", quantity="1")
<i>StringId</i>	BBFULLTYPE	(description="BBFULLTYPE", quantity="1")
<i>StringId</i>	MODE	(description="MODE", quantity="1")
<i>IntId</i>	STEP	(description="STEP", quantity="1")
<i>StringId</i>	THSK	(description="THSK", quantity="1")
<i>LongId</i>	TRESET	(description="TRESET", quantity="1")
<i>IntId</i>	TCRECV	(description="TCRECV", quantity="1")
<i>IntId</i>	TCRECN	(description="TCRECN", quantity="1")
<i>IntId</i>	TCEXEC	(description="TCEXEC", quantity="1")
<i>IntId</i>	TCEXEN	(description="TCEXEN", quantity="1")
<i>IntId</i>	TM1N	(description="TM1N", quantity="1")
<i>IntId</i>	TM2N	(description="TM2N", quantity="1")
<i>IntId</i>	TM3N	(description="TM3N", quantity="1")
<i>IntId</i>	TM4N	(description="TM4N", quantity="1")
<i>IntId</i>	TM5N	(description="TM5N", quantity="1")
<i>IntId</i>	DCUFRAMECNT	(description="DCUFRAMECNT", quantity="1")
<i>IntId</i>	MCUFRAMECNT	(description="MCUFRAMECNT", quantity="1")
<i>IntId</i>	SCUFRAMECNT	(description="SCUFRAMECNT", quantity="1")
<i>StringId</i>	TSYNC	(description="TSYNC", quantity="1")
<i>StringId</i>	TDIFF	(description="TDIFF", quantity="1")
<i>StringId</i>	MEMSTAT_1	(description="MEMSTAT_1", quantity="1")
<i>StringId</i>	MEMSTAT_2	(description="MEMSTAT_2", quantity="1")
<i>StringId</i>	MEMSTAT_3	(description="MEMSTAT_3", quantity="1")
<i>StringId</i>	MONSTAT	(description="MONSTAT", quantity="1")
<i>StringId</i>	DCULSIFSTAT	(description="DCULSIFSTAT", quantity="1")
<i>StringId</i>	DCUHSIFMODE	(description="DCUHSIFMODE", quantity="1")

<i>String1d</i>	MCULSIFSTAT (description="MCULSIFSTAT", quantity="1")
<i>String1d</i>	MCUHSIFMODE (description="MCUHSIFMODE", quantity="1")
<i>String1d</i>	SCULSIFSTAT (description="SCULSIFSTAT", quantity="1")
<i>String1d</i>	SCUHSMODE (description="SCUHSMODE", quantity="1")
<i>Int1d</i>	BBCOUNT (description="BBCOUNT", quantity="1")
<i>Int1d</i>	VMSTAT (description="VMSTAT", quantity="1")
<i>Int1d</i>	VM1STAT (description="VM1STAT", quantity="1")
<i>Int1d</i>	VM2STAT (description="VM2STAT", quantity="1")
<i>Int1d</i>	VM3STAT (description="VM3STAT", quantity="1")
<i>Int1d</i>	VMSTATAFX (description="VMSTATAFX", quantity="1")
<i>Int1d</i>	SD_VALUE0 (description="SD_VALUE0", quantity="1")
<i>Int1d</i>	SD_ADDRESS0 (description="SD_ADDRESS0", quantity="1")
<i>Int1d</i>	SD_VALUE1 (description="SD_VALUE1", quantity="1")
<i>Int1d</i>	SD_ADDRESS1 (description="SD_ADDRESS1", quantity="1")
<i>Int1d</i>	SD_VALUE2 (description="SD_VALUE2", quantity="1")
<i>Int1d</i>	SD_ADDRESS2 (description="SD_ADDRESS2", quantity="1")
<i>Int1d</i>	SD_VALUE3 (description="SD_VALUE3", quantity="1")
<i>Int1d</i>	SD_ADDRESS3 (description="SD_ADDRESS3", quantity="1")
<i>Double1d</i>	DPUP5V (description="DPUP5V", quantity="V")
<i>Double1d</i>	DPUP15V (description="DPUP15V", quantity="V")
<i>Double1d</i>	DPUM15V (description="DPUM15V", quantity="V")
<i>Double1d</i>	DPUTEMP (description="DPUTEMP", quantity="K")
<i>Int1d</i>	CPULOAD (description="CPULOAD", quantity="1")
<i>Long1d</i>	LSLOAD (description="LSLOAD", quantity="1")
<i>Double1d</i>	DPUP2_5V (description="DPUP2_5V", quantity="V")
<i>String1d</i>	DCUDATAMODE (description="DCUDATAMODE", quantity="1")
<i>String1d</i>	DCUDATAFRMS (description="DCUDATAFRMS", quantity="1")
<i>String1d</i>	DCUDATASTAT (description="DCUDATASTAT", quantity="1")
<i>Int1d</i>	PHOTBIASDIV (description="PHOTBIASDIV", quantity="1")
<i>String1d</i>	PHOTBIASMODE (description="PHOTBIASMODE", quantity="1")
<i>Int1d</i>	PHOTMCLKDIV (description="PHOTMCLKDIV", quantity="1")
<i>Double1d</i>	PSWBIAS (description="PSWBIAS", quantity="V")
<i>Double1d</i>	PMWBIAS (description="PMWBIAS", quantity="V")
<i>Double1d</i>	PLWBIAS (description="PLWBIAS", quantity="V")
<i>Double1d</i>	TCBIAS (description="TCBIAS", quantity="V")
<i>Double1d</i>	PSWPHASE (description="PSWPHASE", quantity="deg")
<i>Double1d</i>	PMWPHASE (description="PMWPHASE", quantity="deg")
<i>Double1d</i>	PLWPHASE (description="PLWPHASE", quantity="deg")
<i>Double1d</i>	TCPHASE (description="TCPHASE", quantity="deg")
<i>Int1d</i>	PSWJFETSTAT (description="PSWJFETSTAT", quantity="1")
<i>String1d</i>	PSW_VDD_JFET1 (description="PSW_VDD_JFET1", quantity="1")
<i>String1d</i>	PSW_VDD_JFET2 (description="PSW_VDD_JFET2", quantity="1")

<i>String1d</i>	PSW_VDD_JFET3 (description="PSW_VDD_JFET3", quantity="1")
<i>String1d</i>	PSW_VDD_JFET4 (description="PSW_VDD_JFET4", quantity="1")
<i>String1d</i>	PSW_VDD_JFET5 (description="PSW_VDD_JFET5", quantity="1")
<i>String1d</i>	PSW_VDD_JFET6 (description="PSW_VDD_JFET6", quantity="1")
<i>Int1d</i>	PMLWJFETSTAT (description="PMLWJFETSTAT", quantity="1")
<i>String1d</i>	PMW_VDD_JFET1 (description="PMW_VDD_JFET1", quantity="1")
<i>String1d</i>	PMW_VDD_JFET2 (description="PMW_VDD_JFET2", quantity="1")
<i>String1d</i>	PMW_VDD_JFET3 (description="PMW_VDD_JFET3", quantity="1")
<i>String1d</i>	PMW_VDD_JFET4 (description="PMW_VDD_JFET4", quantity="1")
<i>String1d</i>	PLW_VDD_JFET1 (description="PLW_VDD_JFET1", quantity="1")
<i>String1d</i>	PLW_VDD_JFET2 (description="PLW_VDD_JFET2", quantity="1")
<i>String1d</i>	TC_VDD_JFET (description="TC_VDD_JFET", quantity="1")
<i>Double1d</i>	PSWJFET1V (description="PSWJFET1V", quantity="V")
<i>Double1d</i>	PSWJFET2V (description="PSWJFET2V", quantity="V")
<i>Double1d</i>	PSWJFET3V (description="PSWJFET3V", quantity="V")
<i>Double1d</i>	PSWJFET4V (description="PSWJFET4V", quantity="V")
<i>Double1d</i>	PSWJFET5V (description="PSWJFET5V", quantity="V")
<i>Double1d</i>	PSWJFET6V (description="PSWJFET6V", quantity="V")
<i>Double1d</i>	PMWJFET1V (description="PMWJFET1V", quantity="V")
<i>Double1d</i>	PMWJFET2V (description="PMWJFET2V", quantity="V")
<i>Double1d</i>	PMWJFET3V (description="PMWJFET3V", quantity="V")
<i>Double1d</i>	PMWJFET4V (description="PMWJFET4V", quantity="V")
<i>Double1d</i>	PLWJFET1V (description="PLWJFET1V", quantity="V")
<i>Double1d</i>	PLWJFET2V (description="PLWJFET2V", quantity="V")
<i>Double1d</i>	PHOTHTRV (description="PHOTHTRV", quantity="V")
<i>Double1d</i>	TCJFETV (description="TCJFETV", quantity="V")
<i>Int1d</i>	SPECBIASDIV (description="SPECBIASDIV", quantity="1")
<i>String1d</i>	SPECBIASMODE (description="SPECBIASMODE", quantity="1")
<i>Int1d</i>	SPECMCLKDIV (description="SPECMCLKDIV", quantity="1")
<i>Double1d</i>	SSWBIAS (description="SSWBIAS", quantity="V")
<i>Double1d</i>	SLWBIAS (description="SLWBIAS", quantity="V")
<i>Double1d</i>	SSWPHASE (description="SSWPHASE", quantity="deg")
<i>Double1d</i>	SLWPHASE (description="SLWPHASE", quantity="deg")
<i>Int1d</i>	SPECJFETSTAT (description="SPECJFETSTAT", quantity="1")
<i>String1d</i>	SLW_VDD_JFET1 (description="SLW_VDD_JFET1", quantity="1")
<i>String1d</i>	SSW_VDD_JFET1 (description="SSW_VDD_JFET1", quantity="1")
<i>String1d</i>	SSW_VDD_JFET2 (description="SSW_VDD_JFET2", quantity="1")
<i>Double1d</i>	SSWJFET1V (description="SSWJFET1V", quantity="V")
<i>Double1d</i>	SSWJFET2V (description="SSWJFET2V", quantity="V")
<i>Double1d</i>	SLWJFET1V (description="SLWJFET1V", quantity="V")
<i>Double1d</i>	SPECHTRV (description="SPECHTRV", quantity="V")
<i>Double1d</i>	TC1TEMP (description="TC1TEMP", quantity="V")

<i>Double1d</i>	TC2TEMP (description="TC2TEMP", quantity="V")
<i>Double1d</i>	TC3TEMP (description="TC3TEMP", quantity="V")
<i>Double1d</i>	BIASP5V (description="BIASP5V", quantity="V")
<i>Double1d</i>	BIASP9V (description="BIASP9V", quantity="V")
<i>Double1d</i>	BIASM9V (description="BIASM9V", quantity="V")
<i>Int1d</i>	OBSVER (description="OBSVER", quantity="1")
<i>Short1d</i>	OBSVER1 (description="OBSVER1", quantity="1")
<i>Short1d</i>	OBSVER2 (description="OBSVER2", quantity="1")
<i>String1d</i>	OBSVER3 (description="OBSVER3", quantity="1")
<i>String1d</i>	TMMODE (description="TMMODE", quantity="1")
<i>Int1d</i>	FIFO_DF_FLAG (description="FIFO_DF_FLAG", quantity="1")
<i>Double1d</i>	PLIAP5V (description="PLIAP5V", quantity="V")
<i>Double1d</i>	PLIAP9V (description="PLIAP9V", quantity="V")
<i>Double1d</i>	PLIAM9V (description="PLIAM9V", quantity="V")
<i>Double1d</i>	SLIAP5V (description="SLIAP5V", quantity="V")
<i>Double1d</i>	SLIAP9V (description="SLIAP9V", quantity="V")
<i>Double1d</i>	SLIAM9V (description="SLIAM9V", quantity="V")
<i>Double1d</i>	LIAP9TEMP (description="LIAP9TEMP", quantity="K")
<i>Double1d</i>	LIAP8TEMP (description="LIAP8TEMP", quantity="K")
<i>Double1d</i>	LIAP7TEMP (description="LIAP7TEMP", quantity="K")
<i>Double1d</i>	LIAP6TEMP (description="LIAP6TEMP", quantity="K")
<i>Double1d</i>	LIAP5TEMP (description="LIAP5TEMP", quantity="K")
<i>Double1d</i>	LIAP4TEMP (description="LIAP4TEMP", quantity="K")
<i>Double1d</i>	LIAP3TEMP (description="LIAP3TEMP", quantity="K")
<i>Double1d</i>	LIAP2TEMP (description="LIAP2TEMP", quantity="K")
<i>Double1d</i>	LIAP1TEMP (description="LIAP1TEMP", quantity="K")
<i>Double1d</i>	LIAS1TEMP (description="LIAS1TEMP", quantity="K")
<i>Double1d</i>	LIAS2TEMP (description="LIAS2TEMP", quantity="K")
<i>Double1d</i>	LIAS3TEMP (description="LIAS3TEMP", quantity="K")
<i>Double1d</i>	BIASTEMP (description="BIASTEMP", quantity="K")
<i>Double1d</i>	DAQTEMP (description="DAQTEMP", quantity="K")
<i>Int1d</i>	LIASSTAT (description="LIASSTAT", quantity="1")
<i>String1d</i>	LIAP1STAT (description="LIAP1STAT", quantity="1")
<i>String1d</i>	LIAP2STAT (description="LIAP2STAT", quantity="1")
<i>String1d</i>	LIAP3STAT (description="LIAP3STAT", quantity="1")
<i>String1d</i>	LIAP4STAT (description="LIAP4STAT", quantity="1")
<i>String1d</i>	LIAP5STAT (description="LIAP5STAT", quantity="1")
<i>String1d</i>	LIAP6STAT (description="LIAP6STAT", quantity="1")
<i>String1d</i>	LIAP7STAT (description="LIAP7STAT", quantity="1")
<i>String1d</i>	LIAP8STAT (description="LIAP8STAT", quantity="1")
<i>String1d</i>	LIAP9STAT (description="LIAP9STAT", quantity="1")
<i>String1d</i>	LIAS1STAT (description="LIAS1STAT", quantity="1")

<i>String1d</i>	LIAS2STAT (description="LIAS2STAT", quantity="1")
<i>String1d</i>	LIAS3STAT (description="LIAS3STAT", quantity="1")
<i>Int1d</i>	MCUIFSTAT (description="MCUIFSTAT", quantity="1")
<i>Int1d</i>	MCUIFCTRL (description="MCUIFCTRL", quantity="1")
<i>Int1d</i>	MCUSSDEL (description="MCUSSDEL", quantity="1")
<i>Double1d</i>	MCUP5V (description="MCUP5V", quantity="V")
<i>Double1d</i>	MCUP14V (description="MCUP14V", quantity="V")
<i>Double1d</i>	MCUM14V (description="MCUM14V", quantity="V")
<i>Double1d</i>	MCUP15V (description="MCUP15V", quantity="V")
<i>Double1d</i>	MCUM15V (description="MCUM15V", quantity="V")
<i>Double1d</i>	MCUMACTEMP (description="MCUMACTEMP", quantity="K")
<i>Double1d</i>	MCUSMECTEMP (description="MCUSMECTEMP", quantity="K")
<i>Double1d</i>	MCUBSMTEMP (description="MCUBSMTEMP", quantity="K")
<i>String1d</i>	MCUERR (description="MCUERR", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTLSW (description="MCUSCHEDCNTLSW", quantity="1")
<i>Int1d</i>	MCUSCHEDCNTMSW (description="MCUSCHEDCNTMSW", quantity="1")
<i>Int1d</i>	MCUTM10TSAMPLE (description="MCUTM10TSAMPLE", quantity="1")
<i>String1d</i>	MCUFRAMESTART (description="MCUFRAMESTART", quantity="1")
<i>Int1d</i>	MCUTM12TSAMPLE (description="MCUTM12TSAMPLE", quantity="1")
<i>Int1d</i>	MCUFRAMES (description="MCUFRAMES", quantity="1")
<i>Int1d</i>	MCUTM14TSAMPLE (description="MCUTM14TSAMPLE", quantity="1")
<i>Int1d</i>	MCUTM15TSAMPLE (description="MCUTM15TSAMPLE", quantity="1")
<i>String1d</i>	MCUTMSTATUS (description="MCUTMSTATUS", quantity="1")
<i>String1d</i>	MCUBOOTSTAT (description="MCUBOOTSTAT", quantity="1")
<i>Int1d</i>	MCUDLOADCONF (description="MCUDLOADCONF", quantity="1")
<i>Int1d</i>	SMECLOSTCOUNT (description="SMECLOSTCOUNT", quantity="1")
<i>Int1d</i>	SMECENCPWR (description="SMECENCPWR", quantity="1")
<i>String1d</i>	SMECLVDPWR (description="SMECLVDPWR", quantity="1")
<i>String1d</i>	SMECLATCHSTAT (description="SMECLATCHSTAT", quantity="1")
<i>String1d</i>	SMECLOOPMODE (description="SMECLOOPMODE", quantity="1")
<i>Double1d</i>	SCANSTART (description="SCANSTART", quantity="cm")
<i>Double1d</i>	SCANEND (description="SCANEND", quantity="cm")
<i>Int1d</i>	SCANFSPEED (description="SCANFSPEED", quantity="1")
<i>Int1d</i>	SCANS (description="SCANS", quantity="1")
<i>String1d</i>	SCANMODE (description="SCANMODE", quantity="1")
<i>Int1d</i>	SMECKP (description="SMECKP", quantity="1")
<i>Int1d</i>	SMECKD (description="SMECKD", quantity="1")

<i>Int1d</i>	SMECDFILT (description="SMECDFILT", quantity="1")
<i>Int1d</i>	SMECKI (description="SMECKI", quantity="1")
<i>Int1d</i>	SMECINTLIMIT (description="SMECINTLIMIT", quantity="1")
<i>Int1d</i>	SMECINTTHRESH (description="SMECINTTHRESH", quantity="1")
<i>Int1d</i>	SMECRATELIMIT (description="SMECRATELIMIT", quantity="1")
<i>Int1d</i>	SMECDFILT2 (description="SMECDFILT2", quantity="1")
<i>Int1d</i>	SMECFFGAIN (description="SMECFFGAIN", quantity="1")
<i>Int1d</i>	SMECFFOFFSET (description="SMECFFOFFSET", quantity="1")
<i>Int1d</i>	SCANRSPEED (description="SCANRSPEED", quantity="1")
<i>Int1d</i>	SMECBEMFGAIN (description="SMECBEMFGAIN", quantity="1")
<i>Int1d</i>	SMECMOTORRES (description="SMECMOTORRES", quantity="1")
<i>Int1d</i>	SMECMOTORBEMF (description="SMECMOTORBEMF", quantity="1")
<i>Int1d</i>	SMECRATESCALE (description="SMECRATESCALE", quantity="1")
<i>Double1d</i>	SMECLVDTOFFSET (description="SMECLVDTOFFSET", quantity="cm")
<i>Double1d</i>	SMECLVDTSCALE (description="SMECLVDTSCALE", quantity="cm")
<i>String1d</i>	SMECSTAT (description="SMECSTAT", quantity="1")
<i>String1d</i>	SMECFLAG (description="SMECFLAG", quantity="1")
<i>String1d</i>	SMECLVDTSIGN (description="SMECLVDTSIGN", quantity="1")
<i>String1d</i>	SMECINIT (description="SMECINIT", quantity="1")
<i>String1d</i>	SMECSCANDIR (description="SMECSCANDIR", quantity="1")
<i>Short1d</i>	SMECSCANCNT (description="SMECSCANCNT", quantity="1")
<i>Double1d</i>	SMECENCPOSN (description="SMECENCPOSN", quantity="cm")
<i>Int1d</i>	SMECENC SIG1 (description="SMECENC SIG1", quantity="1")
<i>Int1d</i>	SMECENC SIG2 (description="SMECENC SIG2", quantity="1")
<i>Int1d</i>	SMECENC SIG3 (description="SMECENC SIG3", quantity="1")
<i>Double1d</i>	SMECLVDTPOSN (description="SMECLVDTPOSN", quantity="cm")
<i>Int1d</i>	SMECLVDTACSIG (description="SMECLVDTACSIG", quantity="1")
<i>Int1d</i>	SMECLVDTDCSIG (description="SMECLVDTDCSIG", quantity="1")
<i>Double1d</i>	SMECTRAJPOSN (description="SMECTRAJPOSN", quantity="cm")
<i>Int1d</i>	SMECDACVAL (description="SMECDACVAL", quantity="1")
<i>Double1d</i>	SMECPOSNDELTA (description="SMECPOSNDELTA", quantity="cm")
<i>Double1d</i>	SMECENC FINEPOSN (description="SMECENC FINEPOSN", quantity="cm")
<i>Int1d</i>	SMECMEANSPEED (description="SMECMEANSPEED", quantity="1")
<i>Double1d</i>	SMECSCANPOSNERR (description="SMECSCANPOSNERR", quantity="cm")
<i>Double1d</i>	SMECMOTORCURR (description="SMECMOTORCURR", quantity="A")

<i>DoubleId</i>	SMECMOTORVOLT (description="SMECMOTORVOLT", quantity="V")
<i>IntId</i>	SMECENC SIG1AMP (description="SMECENC SIG1AMP", quantity="1")
<i>IntId</i>	SMECENC SIG1OFF (description="SMECENC SIG1OFF", quantity="1")
<i>IntId</i>	SMECENC SIG2AMP (description="SMECENC SIG2AMP", quantity="1")
<i>IntId</i>	SMECENC SIG2OFF (description="SMECENC SIG2OFF", quantity="1")
<i>IntId</i>	SMECENC SIG3AMP (description="SMECENC SIG3AMP", quantity="1")
<i>IntId</i>	SMECENC SIG3OFF (description="SMECENC SIG3OFF", quantity="1")
<i>StringId</i>	CHOPSENSPWR (description="CHOPSENSPWR", quantity="1")
<i>StringId</i>	CHOPLOOPMODE (description="CHOPLOOPMODE", quantity="1")
<i>IntId</i>	CHOPPOSN (description="CHOPPOSN", quantity="1")
<i>IntId</i>	CHOPPOSN2 (description="CHOPPOSN2", quantity="1")
<i>StringId</i>	BSMMODE (description="BSMMODE", quantity="1")
<i>IntId</i>	CHOPFFOFFSET (description="CHOPFFOFFSET", quantity="1")
<i>IntId</i>	CHOPKP (description="CHOPKP", quantity="1")
<i>IntId</i>	CHOPKD (description="CHOPKD", quantity="1")
<i>IntId</i>	CHOPKI (description="CHOPKI", quantity="1")
<i>IntId</i>	CHOPINTREF (description="CHOPINTREF", quantity="1")
<i>IntId</i>	CHOPINTLIMIT (description="CHOPINTLIMIT", quantity="1")
<i>IntId</i>	CHOPFFGAIN (description="CHOPFFGAIN", quantity="1")
<i>IntId</i>	CHOPFFGAINDIFF (description="CHOPFFGAINDIFF", quantity="1")
<i>IntId</i>	CHOPDIFFTC1 (description="CHOPDIFFTC1", quantity="1")
<i>IntId</i>	CHOPDIFFTC2 (description="CHOPDIFFTC2", quantity="1")
<i>IntId</i>	CHOPRATELIMIT (description="CHOPRATELIMIT", quantity="1")
<i>IntId</i>	CHOPMOTBEMFGAIN (description="CHOPMOTBEMFGAIN", quantity="1")
<i>IntId</i>	CHOPMOTRES (description="CHOPMOTRES", quantity="1")
<i>IntId</i>	CHOPMOTIND (description="CHOPMOTIND", quantity="1")
<i>IntId</i>	CHOPRATESCALE (description="CHOPRATESCALE", quantity="1")
<i>IntId</i>	CHOPPOSNSCALE (description="CHOPPOSNSCALE", quantity="1")
<i>IntId</i>	CHOPBEMFRATFIL1 (description="CHOPBEMFRATFIL1", quantity="1")
<i>IntId</i>	CHOPBEMFRATFIL2 (description="CHOPBEMFRATFIL2", quantity="1")
<i>IntId</i>	CHOPJIGGCUPLE (description="CHOPJIGGCUPLE", quantity="1")
<i>StringId</i>	BSMSTAT (description="BSMSTAT", quantity="1")
<i>IntId</i>	CHOPPOSNERR (description="CHOPPOSNERR", quantity="1")
<i>IntId</i>	CHOPSENSSIG (description="CHOPSENSSIG", quantity="1")
<i>DoubleId</i>	CHOPDACVAL (description="CHOPDACVAL", quantity="V")

<i>Double1d</i>	CHOPMOTORCURR (description="CHOPMOTORCURR", quantity="A")
<i>Double1d</i>	CHOPMOTORVOLT (description="CHOPMOTORVOLT", quantity="V")
<i>String1d</i>	JIGGSENSPWR (description="JIGGSENSPWR", quantity="1")
<i>String1d</i>	JIGGLOOPMODE (description="JIGGLOOPMODE", quantity="1")
<i>Int1d</i>	JIGGPOSN (description="JIGGPOSN", quantity="1")
<i>Int1d</i>	JIGGPOSN2 (description="JIGGPOSN2", quantity="1")
<i>Int1d</i>	JIGGFFOFFSET (description="JIGGFFOFFSET", quantity="1")
<i>Int1d</i>	JIGGKP (description="JIGGKP", quantity="1")
<i>Int1d</i>	JIGGKD (description="JIGGKD", quantity="1")
<i>Int1d</i>	JIGGKI (description="JIGGKI", quantity="1")
<i>Int1d</i>	JIGGINTREF (description="JIGGINTREF", quantity="1")
<i>Int1d</i>	JIGGINTLIMIT (description="JIGGINTLIMIT", quantity="1")
<i>Int1d</i>	JIGGFFGAIN (description="JIGGFFGAIN", quantity="1")
<i>Int1d</i>	JIGGFFGAINDIFF (description="JIGGFFGAINDIFF", quantity="1")
<i>Int1d</i>	JIGGDIFFTC1 (description="JIGGDIFFTC1", quantity="1")
<i>Int1d</i>	JIGGDIFFTC2 (description="JIGGDIFFTC2", quantity="1")
<i>Int1d</i>	JIGGRATELIMIT (description="JIGGRATELIMIT", quantity="1")
<i>Int1d</i>	JIGGMOTBEMFGAIN (description="JIGGMOTBEMFGAIN", quantity="1")
<i>Int1d</i>	JIGGMOTRES (description="JIGGMOTRES", quantity="1")
<i>Int1d</i>	JIGGMOTIND (description="JIGGMOTIND", quantity="1")
<i>Int1d</i>	JIGGRATESCALE (description="JIGGRATESCALE", quantity="1")
<i>Int1d</i>	JIGGPOSNSCALE (description="JIGGPOSNSCALE", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL1 (description="JIGGBEMFRATFIL1", quantity="1")
<i>Int1d</i>	JIGGBEMFRATFIL2 (description="JIGGBEMFRATFIL2", quantity="1")
<i>Int1d</i>	JIGGCHOPCOUPLE (description="JIGGCHOPCOUPLE", quantity="1")
<i>Int1d</i>	JIGGPOSNERR (description="JIGGPOSNERR", quantity="1")
<i>Int1d</i>	JIGGSENSSIG (description="JIGGSENSSIG", quantity="1")
<i>Double1d</i>	JIGGDACVAL (description="JIGGDACVAL", quantity="V")
<i>Double1d</i>	JIGGMOTORCURR (description="JIGGMOTORCURR", quantity="A")
<i>Double1d</i>	JIGGMOTORVOLT (description="JIGGMOTORVOLT", quantity="V")
<i>Int1d</i>	MCUPCKT10PARM05 (description="MCUPCKT10PARM05", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM01 (description="MCUPCKT10PARM01", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM02 (description="MCUPCKT10PARM02", quantity="1")
<i>Int1d</i>	MCUPCKT10PARM03 (description="MCUPCKT10PARM03", quantity="1")

<i>Int1d</i>	MCUPCKT10PARM04 (description="MCUPCKT10PARM04", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM01 (description="MCUPCKT12PARM01", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM02 (description="MCUPCKT12PARM02", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM03 (description="MCUPCKT12PARM03", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM04 (description="MCUPCKT12PARM04", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM05 (description="MCUPCKT12PARM05", quantity="1")
<i>Int1d</i>	MCUPCKT12PARM06 (description="MCUPCKT12PARM06", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM01 (description="MCUPCKT14PARM01", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM02 (description="MCUPCKT14PARM02", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM03 (description="MCUPCKT14PARM03", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM04 (description="MCUPCKT14PARM04", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM05 (description="MCUPCKT14PARM05", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM06 (description="MCUPCKT14PARM06", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM07 (description="MCUPCKT14PARM07", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM08 (description="MCUPCKT14PARM08", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM09 (description="MCUPCKT14PARM09", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM10 (description="MCUPCKT14PARM10", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM11 (description="MCUPCKT14PARM11", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM12 (description="MCUPCKT14PARM12", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM13 (description="MCUPCKT14PARM13", quantity="1")
<i>Int1d</i>	MCUPCKT14PARM14 (description="MCUPCKT14PARM14", quantity="1")
<i>Int1d</i>	SCUIFSTAT (description="SCUIFSTAT", quantity="1")
<i>Int1d</i>	SCUIFCTRL (description="SCUIFCTRL", quantity="1")
<i>Int1d</i>	SCUSSDEL (description="SCUSSDEL", quantity="1")
<i>Int1d</i>	SCUSTAT (description="SCUSTAT", quantity="1")
<i>Int1d</i>	SCUTEMPSTAT (description="SCUTEMPSTAT", quantity="1")
<i>Int1d</i>	SCUDCDCSTAT (description="SCUDCDCSTAT", quantity="1")

<i>String1d</i>	PLIABITSTAT (description="PLIABITSTAT", quantity="1")
<i>String1d</i>	SLIABITSTAT (description="SLIABITSTAT", quantity="1")
<i>String1d</i>	MCUBITSTAT (description="MCUBITSTAT", quantity="1")
<i>Double1d</i>	SCUP5V (description="SCUP5V", quantity="V")
<i>Double1d</i>	SCUP9V (description="SCUP9V", quantity="V")
<i>Double1d</i>	SCUM9V (description="SCUM9V", quantity="V")
<i>Double1d</i>	EVHSV (description="EVHSV", quantity="V")
<i>Double1d</i>	SPHSV (description="SPHSV", quantity="V")
<i>Double1d</i>	TCHTRV (description="TCHTRV", quantity="V")
<i>Double1d</i>	SPHTRV (description="SPHTRV", quantity="V")
<i>Double1d</i>	CCUTEMP (description="CCUTEMP", quantity="K")
<i>Double1d</i>	TCUTEMP (description="TCUTEMP", quantity="K")
<i>Double1d</i>	PSUTEMP1 (description="PSUTEMP1", quantity="K")
<i>Int1d</i>	SCUFRAMECONF (description="SCUFRAMECONF", quantity="1")
<i>Int1d</i>	SCUFRAMES (description="SCUFRAMES", quantity="1")
<i>Int1d</i>	SCUFRAMESTAT (description="SCUFRAMESTAT", quantity="1")
<i>Int1d</i>	SCUCTRL (description="SCUCTRL", quantity="1")
<i>Double1d</i>	PCALV (description="PCALV", quantity="V")
<i>Double1d</i>	SCAL2V (description="SCAL2V", quantity="V")
<i>Double1d</i>	SCAL4V (description="SCAL4V", quantity="V")
<i>Double1d</i>	SCUCHT2_5V (description="SCUCHT2_5V", quantity="V")
<i>Double1d</i>	SCUCHTREF (description="SCUCHTREF", quantity="V")
<i>Double1d</i>	SCUCHTGND (description="SCUCHTGND", quantity="V")
<i>Double1d</i>	PCALCURR (description="PCALCURR", quantity="A")
<i>Double1d</i>	SCAL2CURR (description="SCAL2CURR", quantity="A")
<i>Double1d</i>	SCAL4CURR (description="SCAL4CURR", quantity="A")
<i>Double1d</i>	PSUTEMP2 (description="PSUTEMP2", quantity="K")
<i>String1d</i>	SUBKSTAT (description="SUBKSTAT", quantity="1")
<i>Double1d</i>	PUMPHTRTEMP (description="PUMPHTRTEMP", quantity="K")
<i>Double1d</i>	PUMPHSTEMP (description="PUMPHSTEMP", quantity="K")
<i>Double1d</i>	EVAPHSTEMP (description="EVAPHSTEMP", quantity="K")
<i>Double1d</i>	SHUNTTEMP (description="SHUNTTEMP", quantity="K")
<i>Double1d</i>	EMCFILTEMP (description="EMCFILTEMP", quantity="K")
<i>Double1d</i>	SL0TEMP (description="SL0TEMP", quantity="K")
<i>Double1d</i>	PL0TEMP (description="PL0TEMP", quantity="K")
<i>Double1d</i>	OPTTEMP (description="OPTTEMP", quantity="K")
<i>Double1d</i>	BAFTEMP (description="BAFTEMP", quantity="K")
<i>Double1d</i>	BSMIFTEMP (description="BSMIFTEMP", quantity="K")
<i>Double1d</i>	SCAL2TEMP (description="SCAL2TEMP", quantity="K")
<i>Double1d</i>	SCAL4TEMP (description="SCAL4TEMP", quantity="K")
<i>Double1d</i>	SCALTEMP (description="SCALTEMP", quantity="K")
<i>Double1d</i>	SMECIFTEMP (description="SMECIFTEMP", quantity="K")

<i>DoubleId</i>	SMECTEMP (description="SMECTEMP", quantity="K")
<i>DoubleId</i>	BSMTEMP (description="BSMTEMP", quantity="K")
<i>DoubleId</i>	SUBKTEMP (description="SUBKTEMP", quantity="K")
<i>DoubleId</i>	SCUTHTREF (description="SCUTHTREF", quantity="V")
<i>DoubleId</i>	SCUTHTGND (description="SCUTHTGND", quantity="V")
<i>IntId</i>	LOSTTCBLOCK (description="LOSTTCBLOCK", quantity="1")
<i>IntId</i>	LOSTEVBLOCK (description="LOSTEVBLOCK", quantity="1")
<i>IntId</i>	LOSTHKBLOCK (description="LOSTHKBLOCK", quantity="1")
<i>IntId</i>	LOSTSDBLOCK (description="LOSTSDBLOCK", quantity="1")
<i>IntId</i>	LOSTNTBLOCK (description="LOSTNTBLOCK", quantity="1")
<i>IntId</i>	LS_HP_FIFOSTAT (description="LS_HP_FIFOSTAT", quantity="1")
<i>IntId</i>	LS_LP_FIFOSTAT (description="LS_LP_FIFOSTAT", quantity="1")
<i>StringId</i>	MCUPCKT10STAT (description="MCUPCKT10STAT", quantity="1")
<i>StringId</i>	MCUPCKT12STAT (description="MCUPCKT12STAT", quantity="1")
<i>StringId</i>	MCUPCKT14STAT (description="MCUPCKT14STAT", quantity="1")
<i>StringId</i>	MCUPCKT15STAT (description="MCUPCKT15STAT", quantity="1")
<i>StringId</i>	MCURAMINTEGRITY (description="MCURAMINTEGRITY", quantity="1")
<i>StringId</i>	MCURAMTSTPROG (description="MCURAMTSTPROG", quantity="1")
<i>StringId</i>	MCURAMTSTDATA (description="MCURAMTSTDATA", quantity="1")
<i>StringId</i>	MCUPROM2RAMCOPY (description="MCUPROM2RAMCOPY", quantity="1")
<i>StringId</i>	MCUBOOTMODE (description="MCUBOOTMODE", quantity="1")
<i>IntId</i>	SMECSELECTTAB (description="SMECSELECTTAB", quantity="1")
<i>IntId</i>	CREC_STEP (description="CREC_STEP", quantity="1")
<i>IntId</i>	PTC_STAGE (description="PTC_STAGE", quantity="1")
<i>IntId</i>	SCAL_STAGE (description="SCAL_STAGE", quantity="1")
<i>IntId</i>	JIGGLE_STEP (description="JIGGLE_STEP", quantity="1")
<i>IntId</i>	LOSTRPBLOCK (description="LOSTRPBLOCK", quantity="1")
<i>IntId</i>	LIAFAILCOUNT (description="LIAFAILCOUNT", quantity="1")
<i>IntId</i>	SCANRES (description="SCANRES", quantity="1")
<i>IntId</i>	VM_SMECSIG1OFF (description="VM_SMECSIG1OFF", quantity="1")
<i>IntId</i>	VM_SMECSIG2OFF (description="VM_SMECSIG2OFF", quantity="1")
<i>IntId</i>	TABLE7_09_LWORD (description="TABLE7_09_LWORD", quantity="1")
<i>StringId</i>	PTC_GET_COMMAND (description="PTC_GET_COMMAND", quantity="1")
<i>StringId</i>	SCAL_GET_COMMAND (description="SCAL_GET_COMMAND", quantity="1")
<i>LongId</i>	TABLE7_12 (description="TABLE7_12", quantity="1")

<i>String1d</i>	HK_MON_STATUS (description="HK_MON_STATUS", quantity="1")
<i>Int1d</i>	CHOPJIGG_DCOUPLE (description="CHOPJIGG_DCOUPLE", quantity="1")
<i>Int1d</i>	HK_02 (description="HK_02", quantity="1")
<i>Int1d</i>	HK_03 (description="HK_03", quantity="1")
<i>Int1d</i>	HK_04 (description="HK_04", quantity="1")
<i>Int1d</i>	HK_05 (description="HK_05", quantity="1")
<i>Int1d</i>	HK_06 (description="HK_06", quantity="1")
<i>Int1d</i>	HK_07 (description="HK_07", quantity="1")
<i>Int1d</i>	HK_08 (description="HK_08", quantity="1")
<i>Int1d</i>	HK_09 (description="HK_09", quantity="1")
<i>Int1d</i>	HK_10 (description="HK_10", quantity="1")
<i>Int1d</i>	HK_11 (description="HK_11", quantity="1")
<i>Int1d</i>	HK_12 (description="HK_12", quantity="1")
<i>Int1d</i>	HK_13 (description="HK_13", quantity="1")
<i>Int1d</i>	HK_14 (description="HK_14", quantity="1")
<i>Int1d</i>	HK_15 (description="HK_15", quantity="1")
<i>Int1d</i>	HK_16 (description="HK_16", quantity="1")
<i>Int1d</i>	HK_17 (description="HK_17", quantity="1")
<i>Int1d</i>	HK_18 (description="HK_18", quantity="1")
<i>Int1d</i>	HK_19 (description="HK_19", quantity="1")
<i>Int1d</i>	HK_20 (description="HK_20", quantity="1")
<i>Int1d</i>	HK_21 (description="HK_21", quantity="1")
<i>Int1d</i>	HK_22 (description="HK_22", quantity="1")
<i>Int1d</i>	HK_23 (description="HK_23", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.54. SPIRE Product Level 0.5 - Photometer Detector Timeline

<i>product (type="PDT", description="Photometer Detector Timeline")</i>	
<i>Meta-data</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")

StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
DoubleParameter	biasFreq (description="Bias frequency", quantity="Hz")
StringParameter	elecSide (description="Electronic side", quantity="Hz")
StringParameter	modelName (description="Model name attached to this product", quantity="Hz")
StringParameter	formatVersion (description="Version of product format", quantity="Hz")
StringParameter	missionConfig (description="Mission configuration", quantity="Hz")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")

StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
StringParameter	origin (description="Site that created the product", quantity="arcsec a-1")
StringParameter	type (description="Product Type Identification", quantity="arcsec a-1")
StringParameter	description (description="Name of this product", quantity="arcsec a-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="arcsec a-1")
StringParameter	level (description="The level of the product", quantity="arcsec a-1")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec a-1")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec a-1")
StringParameter	signalTable (description="Name of the signal table", quantity="arcsec a-1")
LongParameter	maskDead (description="Mask value for dead channel", quantity="arcsec a-1")
LongParameter	maskMaster (description="Mask value for master bit", quantity="arcsec a-1")
LongParameter	maskNoisy (description="Mask value for noisy channel", quantity="arcsec a-1")
LongParameter	maskSlow (description="Mask value for slow channel", quantity="arcsec a-1")
BooleanParameter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="arcsec a-1")
DoubleParameter	ratioTruncatedPLW (description="Maximum ratio of out of range values to total number of values in PLW data.", quantity="arcsec a-1")
DoubleParameter	ratioTruncatedPMW (description="Maximum ratio of out of range values to total number of values in PMW data.", quantity="arcsec a-1")
DoubleParameter	ratioTruncatedPSW (description="Maximum ratio of out of range values to total number of values in PSW data.", quantity="arcsec a-1")

DoubleParameter	ratioTruncatedPTC (description="Total fraction of out of range values for PTC", quantity="arcsec a-1")
LongParameter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="arcsec a-1")
LongParameter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="arcsec a-1")
LongParameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="arcsec a-1")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="arcsec a-1")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="arcsec a-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
BooleanParameter	rcRollApp (description="RC roll correction applied", quantity="ms/min")
DoubleParameter	subkTempDrift (description="Drift measured by the SubK temperature probe", quantity="K")
LongParameter	maskNotChoppedToSky (description="Mask value for channel not chopped to sky", quantity="K")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="K")
DoubleParameter	plwBiasAmpl (description="PLW bias amplitude", quantity="V")
DoubleParameter	pmwBiasAmpl (description="PMW bias amplitude", quantity="V")
DoubleParameter	pswBiasAmpl (description="PSW bias amplitude", quantity="V")
DoubleParameter	ptcBiasAmpl (description="PTC bias amplitude", quantity="V")
DoubleParameter	plwBiasPhase (description="PLW bias phase", quantity="rad")
DoubleParameter	pmwBiasPhase (description="PMW bias phase", quantity="rad")
DoubleParameter	pswBiasPhase (description="PSW bias phase", quantity="rad")
DoubleParameter	ptcBiasPhase (description="PTC bias phase", quantity="rad")
StringParameter	scanSpeed (description="Speed of scan", quantity="rad")
LongParameter	scanLineNum (description="Scan line number", quantity="rad")
LongParameter	numberBadVoltageOffsetPLW (description="Number of PLW bolometers with bad voltage offset resets", quantity="rad")

LongParameter	numberBadVoltageOffsetPMW (description="Number of PMW bolometers with bad voltage offset resets", quantity="rad")
LongParameter	numberBadVoltageOffsetPSW (description="Number of PSW bolometers with bad voltage offset resets", quantity="rad")
BooleanParameter	coolerBurpDetected (description="Indicates a cooler burp", quantity="rad")
Columns	
table dataset	(name="voltage", description="Voltages table")
Metadata	
Columns	
DoubleId	sampleTime (description="Sample time", quantity="TAI")
FloatId	PSWR1 (description="PHOTFARRAY001", quantity="V")
FloatId	PSWD16 (description="PHOTFARRAY002", quantity="V")
FloatId	PSWT1 (description="PHOTFARRAY003", quantity="V")
FloatId	PSWB16 (description="PHOTFARRAY004", quantity="V")
FloatId	PSWC15 (description="PHOTFARRAY005", quantity="V")
FloatId	PSWA15 (description="PHOTFARRAY006", quantity="V")
FloatId	PSWD15 (description="PHOTFARRAY007", quantity="V")
FloatId	PSWB15 (description="PHOTFARRAY008", quantity="V")
FloatId	PSWC14 (description="PHOTFARRAY009", quantity="V")
FloatId	PSWD14 (description="PHOTFARRAY010", quantity="V")
FloatId	PSWA14 (description="PHOTFARRAY011", quantity="V")
FloatId	PSWA13 (description="PHOTFARRAY012", quantity="V")
FloatId	PSWB14 (description="PHOTFARRAY013", quantity="V")
FloatId	PSWC13 (description="PHOTFARRAY014", quantity="V")
FloatId	PSWB13 (description="PHOTFARRAY015", quantity="V")
FloatId	PSWD13 (description="PHOTFARRAY016", quantity="V")
FloatId	PSWA12 (description="PHOTFARRAY017", quantity="V")
FloatId	PSWC12 (description="PHOTFARRAY018", quantity="V")
FloatId	PSWD12 (description="PHOTFARRAY019", quantity="V")
FloatId	PSWB12 (description="PHOTFARRAY020", quantity="V")
FloatId	PSWE11 (description="PHOTFARRAY021", quantity="V")
FloatId	PSWA11 (description="PHOTFARRAY022", quantity="V")
FloatId	PSWC11 (description="PHOTFARRAY023", quantity="V")
FloatId	PSWB11 (description="PHOTFARRAY024", quantity="V")
FloatId	PSWE1 (description="PHOTFARRAY025", quantity="V")
FloatId	PSWF1 (description="PHOTFARRAY026", quantity="V")
FloatId	PSWT2 (description="PHOTFARRAY027", quantity="V")
FloatId	PSWH1 (description="PHOTFARRAY028", quantity="V")
FloatId	PSWG1 (description="PHOTFARRAY029", quantity="V")
FloatId	PSWJ1 (description="PHOTFARRAY030", quantity="V")
FloatId	PSWH2 (description="PHOTFARRAY031", quantity="V")

<i>FloatId</i>	PSWF2 (description="PHOTFARRAY032", quantity="V")
<i>FloatId</i>	PSWJ2 (description="PHOTFARRAY033", quantity="V")
<i>FloatId</i>	PSWG2 (description="PHOTFARRAY034", quantity="V")
<i>FloatId</i>	PSWH3 (description="PHOTFARRAY035", quantity="V")
<i>FloatId</i>	PSWJ3 (description="PHOTFARRAY036", quantity="V")
<i>FloatId</i>	PSWE2 (description="PHOTFARRAY037", quantity="V")
<i>FloatId</i>	PSWF3 (description="PHOTFARRAY038", quantity="V")
<i>FloatId</i>	PSWG3 (description="PHOTFARRAY039", quantity="V")
<i>FloatId</i>	PSWH4 (description="PHOTFARRAY040", quantity="V")
<i>FloatId</i>	PSWJ4 (description="PHOTFARRAY041", quantity="V")
<i>FloatId</i>	PSWE3 (description="PHOTFARRAY042", quantity="V")
<i>FloatId</i>	PSWF4 (description="PHOTFARRAY043", quantity="V")
<i>FloatId</i>	PSWG4 (description="PHOTFARRAY044", quantity="V")
<i>FloatId</i>	PSWH5 (description="PHOTFARRAY045", quantity="V")
<i>FloatId</i>	PSWE4 (description="PHOTFARRAY046", quantity="V")
<i>FloatId</i>	PSWJ5 (description="PHOTFARRAY047", quantity="V")
<i>FloatId</i>	PSWF5 (description="PHOTFARRAY048", quantity="V")
<i>FloatId</i>	PSWD6 (description="PHOTFARRAY049", quantity="V")
<i>FloatId</i>	PSWB6 (description="PHOTFARRAY050", quantity="V")
<i>FloatId</i>	PSWC5 (description="PHOTFARRAY051", quantity="V")
<i>FloatId</i>	PSWA5 (description="PHOTFARRAY052", quantity="V")
<i>FloatId</i>	PSWE5 (description="PHOTFARRAY053", quantity="V")
<i>FloatId</i>	PSWB5 (description="PHOTFARRAY054", quantity="V")
<i>FloatId</i>	PSWD5 (description="PHOTFARRAY055", quantity="V")
<i>FloatId</i>	PSWC4 (description="PHOTFARRAY056", quantity="V")
<i>FloatId</i>	PSWA4 (description="PHOTFARRAY057", quantity="V")
<i>FloatId</i>	PSWD4 (description="PHOTFARRAY058", quantity="V")
<i>FloatId</i>	PSWB4 (description="PHOTFARRAY059", quantity="V")
<i>FloatId</i>	PSWC3 (description="PHOTFARRAY060", quantity="V")
<i>FloatId</i>	PSWB3 (description="PHOTFARRAY061", quantity="V")
<i>FloatId</i>	PSWA3 (description="PHOTFARRAY062", quantity="V")
<i>FloatId</i>	PSWA2 (description="PHOTFARRAY063", quantity="V")
<i>FloatId</i>	PSWD3 (description="PHOTFARRAY064", quantity="V")
<i>FloatId</i>	PSWC2 (description="PHOTFARRAY065", quantity="V")
<i>FloatId</i>	PSWB2 (description="PHOTFARRAY066", quantity="V")
<i>FloatId</i>	PSWD2 (description="PHOTFARRAY067", quantity="V")
<i>FloatId</i>	PSWA1 (description="PHOTFARRAY068", quantity="V")
<i>FloatId</i>	PSWC1 (description="PHOTFARRAY069", quantity="V")
<i>FloatId</i>	PSWB1 (description="PHOTFARRAY070", quantity="V")
<i>FloatId</i>	PSWDP1 (description="PHOTFARRAY071", quantity="V")
<i>FloatId</i>	PSWD1 (description="PHOTFARRAY072", quantity="V")
<i>FloatId</i>	PSWF12 (description="PHOTFARRAY073", quantity="V")

<i>FloatId</i>	PSWJ11 (description="PHOTFARRAY074", quantity="V")
<i>FloatId</i>	PSWE12 (description="PHOTFARRAY075", quantity="V")
<i>FloatId</i>	PSWH12 (description="PHOTFARRAY076", quantity="V")
<i>FloatId</i>	PSWG12 (description="PHOTFARRAY077", quantity="V")
<i>FloatId</i>	PSWF13 (description="PHOTFARRAY078", quantity="V")
<i>FloatId</i>	PSWE13 (description="PHOTFARRAY079", quantity="V")
<i>FloatId</i>	PSWJ12 (description="PHOTFARRAY080", quantity="V")
<i>FloatId</i>	PSWH13 (description="PHOTFARRAY081", quantity="V")
<i>FloatId</i>	PSWG13 (description="PHOTFARRAY082", quantity="V")
<i>FloatId</i>	PSWF14 (description="PHOTFARRAY083", quantity="V")
<i>FloatId</i>	PSWE14 (description="PHOTFARRAY084", quantity="V")
<i>FloatId</i>	PSWJ13 (description="PHOTFARRAY085", quantity="V")
<i>FloatId</i>	PSWH14 (description="PHOTFARRAY086", quantity="V")
<i>FloatId</i>	PSWG14 (description="PHOTFARRAY087", quantity="V")
<i>FloatId</i>	PSWJ14 (description="PHOTFARRAY088", quantity="V")
<i>FloatId</i>	PSWF15 (description="PHOTFARRAY089", quantity="V")
<i>FloatId</i>	PSWH15 (description="PHOTFARRAY090", quantity="V")
<i>FloatId</i>	PSWJ15 (description="PHOTFARRAY091", quantity="V")
<i>FloatId</i>	PSWG15 (description="PHOTFARRAY092", quantity="V")
<i>FloatId</i>	PSWH16 (description="PHOTFARRAY093", quantity="V")
<i>FloatId</i>	PSWDP2 (description="PHOTFARRAY094", quantity="V")
<i>FloatId</i>	PSWF16 (description="PHOTFARRAY095", quantity="V")
<i>FloatId</i>	PSWE15 (description="PHOTFARRAY096", quantity="V")
<i>FloatId</i>	PSWD11 (description="PHOTFARRAY097", quantity="V")
<i>FloatId</i>	PSWA10 (description="PHOTFARRAY098", quantity="V")
<i>FloatId</i>	PSWE10 (description="PHOTFARRAY099", quantity="V")
<i>FloatId</i>	PSWC10 (description="PHOTFARRAY100", quantity="V")
<i>FloatId</i>	PSWB10 (description="PHOTFARRAY101", quantity="V")
<i>FloatId</i>	PSWD10 (description="PHOTFARRAY102", quantity="V")
<i>FloatId</i>	PSWA9 (description="PHOTFARRAY103", quantity="V")
<i>FloatId</i>	PSWE9 (description="PHOTFARRAY104", quantity="V")
<i>FloatId</i>	PSWC9 (description="PHOTFARRAY105", quantity="V")
<i>FloatId</i>	PSWB9 (description="PHOTFARRAY106", quantity="V")
<i>FloatId</i>	PSWD9 (description="PHOTFARRAY107", quantity="V")
<i>FloatId</i>	PSWA8 (description="PHOTFARRAY108", quantity="V")
<i>FloatId</i>	PSWC8 (description="PHOTFARRAY109", quantity="V")
<i>FloatId</i>	PSWE8 (description="PHOTFARRAY110", quantity="V")
<i>FloatId</i>	PSWD8 (description="PHOTFARRAY111", quantity="V")
<i>FloatId</i>	PSWB8 (description="PHOTFARRAY112", quantity="V")
<i>FloatId</i>	PSWC7 (description="PHOTFARRAY113", quantity="V")
<i>FloatId</i>	PSWE7 (description="PHOTFARRAY114", quantity="V")
<i>FloatId</i>	PSWA7 (description="PHOTFARRAY115", quantity="V")

<i>FloatId</i>	PSWD7 (description="PHOTFARRAY116", quantity="V")
<i>FloatId</i>	PSWB7 (description="PHOTFARRAY117", quantity="V")
<i>FloatId</i>	PSWC6 (description="PHOTFARRAY118", quantity="V")
<i>FloatId</i>	PSWE6 (description="PHOTFARRAY119", quantity="V")
<i>FloatId</i>	PSWA6 (description="PHOTFARRAY120", quantity="V")
<i>FloatId</i>	PSWG5 (description="PHOTFARRAY121", quantity="V")
<i>FloatId</i>	PSWH6 (description="PHOTFARRAY122", quantity="V")
<i>FloatId</i>	PSWJ6 (description="PHOTFARRAY123", quantity="V")
<i>FloatId</i>	PSWF6 (description="PHOTFARRAY124", quantity="V")
<i>FloatId</i>	PSWG6 (description="PHOTFARRAY125", quantity="V")
<i>FloatId</i>	PSWH7 (description="PHOTFARRAY126", quantity="V")
<i>FloatId</i>	PSWF7 (description="PHOTFARRAY127", quantity="V")
<i>FloatId</i>	PSWJ7 (description="PHOTFARRAY128", quantity="V")
<i>FloatId</i>	PSWG7 (description="PHOTFARRAY129", quantity="V")
<i>FloatId</i>	PSWH8 (description="PHOTFARRAY130", quantity="V")
<i>FloatId</i>	PSWF8 (description="PHOTFARRAY131", quantity="V")
<i>FloatId</i>	PSWG8 (description="PHOTFARRAY132", quantity="V")
<i>FloatId</i>	PSWJ8 (description="PHOTFARRAY133", quantity="V")
<i>FloatId</i>	PSWF9 (description="PHOTFARRAY134", quantity="V")
<i>FloatId</i>	PSWH9 (description="PHOTFARRAY135", quantity="V")
<i>FloatId</i>	PSWG9 (description="PHOTFARRAY136", quantity="V")
<i>FloatId</i>	PSWJ9 (description="PHOTFARRAY137", quantity="V")
<i>FloatId</i>	PSWF10 (description="PHOTFARRAY138", quantity="V")
<i>FloatId</i>	PSWH10 (description="PHOTFARRAY139", quantity="V")
<i>FloatId</i>	PSWG10 (description="PHOTFARRAY140", quantity="V")
<i>FloatId</i>	PSWF11 (description="PHOTFARRAY141", quantity="V")
<i>FloatId</i>	PSWJ10 (description="PHOTFARRAY142", quantity="V")
<i>FloatId</i>	PSWH11 (description="PHOTFARRAY143", quantity="V")
<i>FloatId</i>	PSWG11 (description="PHOTFARRAY144", quantity="V")
<i>FloatId</i>	PLWR1 (description="PHOTFARRAY145", quantity="V")
<i>FloatId</i>	PLWA8 (description="PHOTFARRAY146", quantity="V")
<i>FloatId</i>	PLWA7 (description="PHOTFARRAY147", quantity="V")
<i>FloatId</i>	PLWA6 (description="PHOTFARRAY148", quantity="V")
<i>FloatId</i>	PLWA9 (description="PHOTFARRAY149", quantity="V")
<i>FloatId</i>	PLWC9 (description="PHOTFARRAY150", quantity="V")
<i>FloatId</i>	PLWB8 (description="PHOTFARRAY151", quantity="V")
<i>FloatId</i>	PLWB7 (description="PHOTFARRAY152", quantity="V")
<i>FloatId</i>	PLWC7 (description="PHOTFARRAY153", quantity="V")
<i>FloatId</i>	PLWB5 (description="PHOTFARRAY154", quantity="V")
<i>FloatId</i>	PLWB6 (description="PHOTFARRAY155", quantity="V")
<i>FloatId</i>	PLWA5 (description="PHOTFARRAY156", quantity="V")
<i>FloatId</i>	PLWT1 (description="PHOTFARRAY157", quantity="V")

<i>FloatId</i>	PLWB4 (description="PHOTFARRAY158", quantity="V")
<i>FloatId</i>	PLWC4 (description="PHOTFARRAY159", quantity="V")
<i>FloatId</i>	PLWB3 (description="PHOTFARRAY160", quantity="V")
<i>FloatId</i>	PLWC2 (description="PHOTFARRAY161", quantity="V")
<i>FloatId</i>	PLWB2 (description="PHOTFARRAY162", quantity="V")
<i>FloatId</i>	PLWB1 (description="PHOTFARRAY163", quantity="V")
<i>FloatId</i>	PLWA3 (description="PHOTFARRAY164", quantity="V")
<i>FloatId</i>	PLWA4 (description="PHOTFARRAY165", quantity="V")
<i>FloatId</i>	PLWA1 (description="PHOTFARRAY166", quantity="V")
<i>FloatId</i>	PLWDP1 (description="PHOTFARRAY167", quantity="V")
<i>FloatId</i>	PLWA2 (description="PHOTFARRAY168", quantity="V")
<i>FloatId</i>	PLWE1 (description="PHOTFARRAY169", quantity="V")
<i>FloatId</i>	PLWE2 (description="PHOTFARRAY170", quantity="V")
<i>FloatId</i>	PLWE3 (description="PHOTFARRAY171", quantity="V")
<i>FloatId</i>	PLWE4 (description="PHOTFARRAY172", quantity="V")
<i>FloatId</i>	PLWD1 (description="PHOTFARRAY173", quantity="V")
<i>FloatId</i>	PLWD2 (description="PHOTFARRAY174", quantity="V")
<i>FloatId</i>	PLWD3 (description="PHOTFARRAY175", quantity="V")
<i>FloatId</i>	PLWD4 (description="PHOTFARRAY176", quantity="V")
<i>FloatId</i>	PLWC1 (description="PHOTFARRAY177", quantity="V")
<i>FloatId</i>	PLWC3 (description="PHOTFARRAY178", quantity="V")
<i>FloatId</i>	PLWC5 (description="PHOTFARRAY179", quantity="V")
<i>FloatId</i>	PLWT2 (description="PHOTFARRAY180", quantity="V")
<i>FloatId</i>	PLWE5 (description="PHOTFARRAY181", quantity="V")
<i>FloatId</i>	PLWC6 (description="PHOTFARRAY182", quantity="V")
<i>FloatId</i>	PLWC8 (description="PHOTFARRAY183", quantity="V")
<i>FloatId</i>	PLWD5 (description="PHOTFARRAY184", quantity="V")
<i>FloatId</i>	PLWD6 (description="PHOTFARRAY185", quantity="V")
<i>FloatId</i>	PLWD7 (description="PHOTFARRAY186", quantity="V")
<i>FloatId</i>	PLWD8 (description="PHOTFARRAY187", quantity="V")
<i>FloatId</i>	PLWE7 (description="PHOTFARRAY188", quantity="V")
<i>FloatId</i>	PLWE6 (description="PHOTFARRAY189", quantity="V")
<i>FloatId</i>	PLWE8 (description="PHOTFARRAY190", quantity="V")
<i>FloatId</i>	PLWDP2 (description="PHOTFARRAY191", quantity="V")
<i>FloatId</i>	PLWE9 (description="PHOTFARRAY192", quantity="V")
<i>FloatId</i>	PMWA13 (description="PHOTFARRAY193", quantity="V")
<i>FloatId</i>	PMWT1 (description="PHOTFARRAY194", quantity="V")
<i>FloatId</i>	PMWB12 (description="PHOTFARRAY195", quantity="V")
<i>FloatId</i>	PMWC13 (description="PHOTFARRAY196", quantity="V")
<i>FloatId</i>	PMWA12 (description="PHOTFARRAY197", quantity="V")
<i>FloatId</i>	PMWD12 (description="PHOTFARRAY198", quantity="V")
<i>FloatId</i>	PMWC12 (description="PHOTFARRAY199", quantity="V")

<i>FloatId</i>	PMWB11 (description="PHOTFARRAY200", quantity="V")
<i>FloatId</i>	PMWA11 (description="PHOTFARRAY201", quantity="V")
<i>FloatId</i>	PMWE13 (description="PHOTFARRAY202", quantity="V")
<i>FloatId</i>	PMWD11 (description="PHOTFARRAY203", quantity="V")
<i>FloatId</i>	PMWC11 (description="PHOTFARRAY204", quantity="V")
<i>FloatId</i>	PMWB10 (description="PHOTFARRAY205", quantity="V")
<i>FloatId</i>	PMWA10 (description="PHOTFARRAY206", quantity="V")
<i>FloatId</i>	PMWD10 (description="PHOTFARRAY207", quantity="V")
<i>FloatId</i>	PMWB9 (description="PHOTFARRAY208", quantity="V")
<i>FloatId</i>	PMWC10 (description="PHOTFARRAY209", quantity="V")
<i>FloatId</i>	PMWC9 (description="PHOTFARRAY210", quantity="V")
<i>FloatId</i>	PMWA9 (description="PHOTFARRAY211", quantity="V")
<i>FloatId</i>	PMWB8 (description="PHOTFARRAY212", quantity="V")
<i>FloatId</i>	PMWA8 (description="PHOTFARRAY213", quantity="V")
<i>FloatId</i>	PMWD8 (description="PHOTFARRAY214", quantity="V")
<i>FloatId</i>	PMWC8 (description="PHOTFARRAY215", quantity="V")
<i>FloatId</i>	PMWB7 (description="PHOTFARRAY216", quantity="V")
<i>FloatId</i>	PMWR1 (description="PHOTFARRAY217", quantity="V")
<i>FloatId</i>	PMWG1 (description="PHOTFARRAY218", quantity="V")
<i>FloatId</i>	PMWT2 (description="PHOTFARRAY219", quantity="V")
<i>FloatId</i>	PMWE1 (description="PHOTFARRAY220", quantity="V")
<i>FloatId</i>	PMWD1 (description="PHOTFARRAY221", quantity="V")
<i>FloatId</i>	PMWF1 (description="PHOTFARRAY222", quantity="V")
<i>FloatId</i>	PMWE2 (description="PHOTFARRAY223", quantity="V")
<i>FloatId</i>	PMWG2 (description="PHOTFARRAY224", quantity="V")
<i>FloatId</i>	PMWF2 (description="PHOTFARRAY225", quantity="V")
<i>FloatId</i>	PMWG3 (description="PHOTFARRAY226", quantity="V")
<i>FloatId</i>	PMWE3 (description="PHOTFARRAY227", quantity="V")
<i>FloatId</i>	PMWD3 (description="PHOTFARRAY228", quantity="V")
<i>FloatId</i>	PMWF3 (description="PHOTFARRAY229", quantity="V")
<i>FloatId</i>	PMWG4 (description="PHOTFARRAY230", quantity="V")
<i>FloatId</i>	PMWE4 (description="PHOTFARRAY231", quantity="V")
<i>FloatId</i>	PMWF4 (description="PHOTFARRAY232", quantity="V")
<i>FloatId</i>	PMWE5 (description="PHOTFARRAY233", quantity="V")
<i>FloatId</i>	PMWD5 (description="PHOTFARRAY234", quantity="V")
<i>FloatId</i>	PMWF5 (description="PHOTFARRAY235", quantity="V")
<i>FloatId</i>	PMWG5 (description="PHOTFARRAY236", quantity="V")
<i>FloatId</i>	PMWE6 (description="PHOTFARRAY237", quantity="V")
<i>FloatId</i>	PMWG6 (description="PHOTFARRAY238", quantity="V")
<i>FloatId</i>	PMWF6 (description="PHOTFARRAY239", quantity="V")
<i>FloatId</i>	PMWG7 (description="PHOTFARRAY240", quantity="V")
<i>FloatId</i>	PMWF10 (description="PHOTFARRAY241", quantity="V")

<i>Float1d</i>	PMWE11 (description="PHOTFARRAY242", quantity="V")
<i>Float1d</i>	PMWG11 (description="PHOTFARRAY243", quantity="V")
<i>Float1d</i>	PMWF11 (description="PHOTFARRAY244", quantity="V")
<i>Float1d</i>	PMWE12 (description="PHOTFARRAY245", quantity="V")
<i>Float1d</i>	PMWG12 (description="PHOTFARRAY246", quantity="V")
<i>Float1d</i>	PMWF12 (description="PHOTFARRAY247", quantity="V")
<i>Float1d</i>	PMWG13 (description="PHOTFARRAY248", quantity="V")
<i>Float1d</i>	PMWDP2 (description="PHOTFARRAY249", quantity="V")
<i>Float1d</i>	PMWE7 (description="PHOTFARRAY250", quantity="V")
<i>Float1d</i>	PMWD7 (description="PHOTFARRAY251", quantity="V")
<i>Float1d</i>	PMWF7 (description="PHOTFARRAY252", quantity="V")
<i>Float1d</i>	PMWE8 (description="PHOTFARRAY253", quantity="V")
<i>Float1d</i>	PMWG8 (description="PHOTFARRAY254", quantity="V")
<i>Float1d</i>	PMWF8 (description="PHOTFARRAY255", quantity="V")
<i>Float1d</i>	PMWE9 (description="PHOTFARRAY256", quantity="V")
<i>Float1d</i>	PMWG9 (description="PHOTFARRAY257", quantity="V")
<i>Float1d</i>	PMWD9 (description="PHOTFARRAY258", quantity="V")
<i>Float1d</i>	PMWF9 (description="PHOTFARRAY259", quantity="V")
<i>Float1d</i>	PMWE10 (description="PHOTFARRAY260", quantity="V")
<i>Float1d</i>	PMWG10 (description="PHOTFARRAY261", quantity="V")
<i>Float1d</i>	PMWC4 (description="PHOTFARRAY262", quantity="V")
<i>Float1d</i>	PMWB3 (description="PHOTFARRAY263", quantity="V")
<i>Float1d</i>	PMWC3 (description="PHOTFARRAY264", quantity="V")
<i>Float1d</i>	PMWB2 (description="PHOTFARRAY265", quantity="V")
<i>Float1d</i>	PMWD2 (description="PHOTFARRAY266", quantity="V")
<i>Float1d</i>	PMWA3 (description="PHOTFARRAY267", quantity="V")
<i>Float1d</i>	PMWA2 (description="PHOTFARRAY268", quantity="V")
<i>Float1d</i>	PMWC2 (description="PHOTFARRAY269", quantity="V")
<i>Float1d</i>	PMWB1 (description="PHOTFARRAY270", quantity="V")
<i>Float1d</i>	PMWA1 (description="PHOTFARRAY271", quantity="V")
<i>Float1d</i>	PMWDP1 (description="PHOTFARRAY272", quantity="V")
<i>Float1d</i>	PMWC1 (description="PHOTFARRAY273", quantity="V")
<i>Float1d</i>	PMWA7 (description="PHOTFARRAY274", quantity="V")
<i>Float1d</i>	PMWA6 (description="PHOTFARRAY275", quantity="V")
<i>Float1d</i>	PMWB6 (description="PHOTFARRAY276", quantity="V")
<i>Float1d</i>	PMWC7 (description="PHOTFARRAY277", quantity="V")
<i>Float1d</i>	PMWA5 (description="PHOTFARRAY278", quantity="V")
<i>Float1d</i>	PMWB5 (description="PHOTFARRAY279", quantity="V")
<i>Float1d</i>	PMWC6 (description="PHOTFARRAY280", quantity="V")
<i>Float1d</i>	PMWD6 (description="PHOTFARRAY281", quantity="V")
<i>Float1d</i>	PMWB4 (description="PHOTFARRAY282", quantity="V")
<i>Float1d</i>	PMWC5 (description="PHOTFARRAY283", quantity="V")

<i>Float1d</i>	PMWD4 (description="PHOTFARRAY284", quantity="V")
<i>Float1d</i>	PMWA4 (description="PHOTFARRAY285", quantity="V")
<i>Float1d</i>	PTCP1 (description="PHOTFARRAY286", quantity="V")
<i>Float1d</i>	PTCP2 (description="PHOTFARRAY287", quantity="V")
<i>Float1d</i>	PTCP3 (description="PHOTFARRAY288", quantity="V")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="resistance", description="Resistances table")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="quality", description="Quality control metric quantities")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="temperature", description="Temperature")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.55. SPIRE Product Level 0.5 - Photometer Offset Timeline

<i>product (type="POT", description="Photometer Offset Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")

StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
StringParameter	origin (description="Site that created the product", quantity="arcsec a-1")
StringParameter	type (description="Product Type Identification", quantity="arcsec a-1")
StringParameter	description (description="Name of this product", quantity="arcsec a-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="arcsec a-1")
StringParameter	level (description="The level of the product", quantity="arcsec a-1")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec a-1")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec a-1")
LongParameter	maskMaster (description="Mask value for master bit", quantity="arcsec a-1")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="arcsec a-1")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="arcsec a-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="ms/min")
StringParameter	scanSpeed (description="Speed of scan", quantity="ms/min")
BooleanParameter	coolerBurpDetected (description="Indicates a cooler burp", quantity="ms/min")
<i>Columns</i>	
<i>table dataset</i>	(name="signal", description="Signal timelines")
<i>Metadata</i>	

<i>Columns</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>IntId</i>	PSWR1 (description="PHOTOFF001", quantity="1")
<i>IntId</i>	PSWD16 (description="PHOTOFF002", quantity="1")
<i>IntId</i>	PSWT1 (description="PHOTOFF003", quantity="1")
<i>IntId</i>	PSWB16 (description="PHOTOFF004", quantity="1")
<i>IntId</i>	PSWC15 (description="PHOTOFF005", quantity="1")
<i>IntId</i>	PSWA15 (description="PHOTOFF006", quantity="1")
<i>IntId</i>	PSWD15 (description="PHOTOFF007", quantity="1")
<i>IntId</i>	PSWB15 (description="PHOTOFF008", quantity="1")
<i>IntId</i>	PSWC14 (description="PHOTOFF009", quantity="1")
<i>IntId</i>	PSWD14 (description="PHOTOFF010", quantity="1")
<i>IntId</i>	PSWA14 (description="PHOTOFF011", quantity="1")
<i>IntId</i>	PSWA13 (description="PHOTOFF012", quantity="1")
<i>IntId</i>	PSWB14 (description="PHOTOFF013", quantity="1")
<i>IntId</i>	PSWC13 (description="PHOTOFF014", quantity="1")
<i>IntId</i>	PSWB13 (description="PHOTOFF015", quantity="1")
<i>IntId</i>	PSWD13 (description="PHOTOFF016", quantity="1")
<i>IntId</i>	PSWA12 (description="PHOTOFF017", quantity="1")
<i>IntId</i>	PSWC12 (description="PHOTOFF018", quantity="1")
<i>IntId</i>	PSWD12 (description="PHOTOFF019", quantity="1")
<i>IntId</i>	PSWB12 (description="PHOTOFF020", quantity="1")
<i>IntId</i>	PSWE11 (description="PHOTOFF021", quantity="1")
<i>IntId</i>	PSWA11 (description="PHOTOFF022", quantity="1")
<i>IntId</i>	PSWC11 (description="PHOTOFF023", quantity="1")
<i>IntId</i>	PSWB11 (description="PHOTOFF024", quantity="1")
<i>IntId</i>	PSWE1 (description="PHOTOFF025", quantity="1")
<i>IntId</i>	PSWF1 (description="PHOTOFF026", quantity="1")
<i>IntId</i>	PSWT2 (description="PHOTOFF027", quantity="1")
<i>IntId</i>	PSWH1 (description="PHOTOFF028", quantity="1")
<i>IntId</i>	PSWG1 (description="PHOTOFF029", quantity="1")
<i>IntId</i>	PSWJ1 (description="PHOTOFF030", quantity="1")
<i>IntId</i>	PSWH2 (description="PHOTOFF031", quantity="1")
<i>IntId</i>	PSWF2 (description="PHOTOFF032", quantity="1")
<i>IntId</i>	PSWJ2 (description="PHOTOFF033", quantity="1")
<i>IntId</i>	PSWG2 (description="PHOTOFF034", quantity="1")
<i>IntId</i>	PSWH3 (description="PHOTOFF035", quantity="1")
<i>IntId</i>	PSWJ3 (description="PHOTOFF036", quantity="1")
<i>IntId</i>	PSWE2 (description="PHOTOFF037", quantity="1")
<i>IntId</i>	PSWF3 (description="PHOTOFF038", quantity="1")
<i>IntId</i>	PSWG3 (description="PHOTOFF039", quantity="1")
<i>IntId</i>	PSWH4 (description="PHOTOFF040", quantity="1")

<i>Int1d</i>	PSWJ4 (description="PHOTOFF041", quantity="1")
<i>Int1d</i>	PSWE3 (description="PHOTOFF042", quantity="1")
<i>Int1d</i>	PSWF4 (description="PHOTOFF043", quantity="1")
<i>Int1d</i>	PSWG4 (description="PHOTOFF044", quantity="1")
<i>Int1d</i>	PSWH5 (description="PHOTOFF045", quantity="1")
<i>Int1d</i>	PSWE4 (description="PHOTOFF046", quantity="1")
<i>Int1d</i>	PSWJ5 (description="PHOTOFF047", quantity="1")
<i>Int1d</i>	PSWF5 (description="PHOTOFF048", quantity="1")
<i>Int1d</i>	PSWD6 (description="PHOTOFF049", quantity="1")
<i>Int1d</i>	PSWB6 (description="PHOTOFF050", quantity="1")
<i>Int1d</i>	PSWC5 (description="PHOTOFF051", quantity="1")
<i>Int1d</i>	PSWA5 (description="PHOTOFF052", quantity="1")
<i>Int1d</i>	PSWE5 (description="PHOTOFF053", quantity="1")
<i>Int1d</i>	PSWB5 (description="PHOTOFF054", quantity="1")
<i>Int1d</i>	PSWD5 (description="PHOTOFF055", quantity="1")
<i>Int1d</i>	PSWC4 (description="PHOTOFF056", quantity="1")
<i>Int1d</i>	PSWA4 (description="PHOTOFF057", quantity="1")
<i>Int1d</i>	PSWD4 (description="PHOTOFF058", quantity="1")
<i>Int1d</i>	PSWB4 (description="PHOTOFF059", quantity="1")
<i>Int1d</i>	PSWC3 (description="PHOTOFF060", quantity="1")
<i>Int1d</i>	PSWB3 (description="PHOTOFF061", quantity="1")
<i>Int1d</i>	PSWA3 (description="PHOTOFF062", quantity="1")
<i>Int1d</i>	PSWA2 (description="PHOTOFF063", quantity="1")
<i>Int1d</i>	PSWD3 (description="PHOTOFF064", quantity="1")
<i>Int1d</i>	PSWC2 (description="PHOTOFF065", quantity="1")
<i>Int1d</i>	PSWB2 (description="PHOTOFF066", quantity="1")
<i>Int1d</i>	PSWD2 (description="PHOTOFF067", quantity="1")
<i>Int1d</i>	PSWA1 (description="PHOTOFF068", quantity="1")
<i>Int1d</i>	PSWC1 (description="PHOTOFF069", quantity="1")
<i>Int1d</i>	PSWB1 (description="PHOTOFF070", quantity="1")
<i>Int1d</i>	PSWDP1 (description="PHOTOFF071", quantity="1")
<i>Int1d</i>	PSWD1 (description="PHOTOFF072", quantity="1")
<i>Int1d</i>	PSWF12 (description="PHOTOFF073", quantity="1")
<i>Int1d</i>	PSWJ11 (description="PHOTOFF074", quantity="1")
<i>Int1d</i>	PSWE12 (description="PHOTOFF075", quantity="1")
<i>Int1d</i>	PSWH12 (description="PHOTOFF076", quantity="1")
<i>Int1d</i>	PSWG12 (description="PHOTOFF077", quantity="1")
<i>Int1d</i>	PSWF13 (description="PHOTOFF078", quantity="1")
<i>Int1d</i>	PSWE13 (description="PHOTOFF079", quantity="1")
<i>Int1d</i>	PSWJ12 (description="PHOTOFF080", quantity="1")
<i>Int1d</i>	PSWH13 (description="PHOTOFF081", quantity="1")
<i>Int1d</i>	PSWG13 (description="PHOTOFF082", quantity="1")

<i>Int1d</i>	PSWF14 (description="PHOTOFF083", quantity="1")
<i>Int1d</i>	PSWE14 (description="PHOTOFF084", quantity="1")
<i>Int1d</i>	PSWJ13 (description="PHOTOFF085", quantity="1")
<i>Int1d</i>	PSWH14 (description="PHOTOFF086", quantity="1")
<i>Int1d</i>	PSWG14 (description="PHOTOFF087", quantity="1")
<i>Int1d</i>	PSWJ14 (description="PHOTOFF088", quantity="1")
<i>Int1d</i>	PSWF15 (description="PHOTOFF089", quantity="1")
<i>Int1d</i>	PSWH15 (description="PHOTOFF090", quantity="1")
<i>Int1d</i>	PSWJ15 (description="PHOTOFF091", quantity="1")
<i>Int1d</i>	PSWG15 (description="PHOTOFF092", quantity="1")
<i>Int1d</i>	PSWH16 (description="PHOTOFF093", quantity="1")
<i>Int1d</i>	PSWDP2 (description="PHOTOFF094", quantity="1")
<i>Int1d</i>	PSWF16 (description="PHOTOFF095", quantity="1")
<i>Int1d</i>	PSWE15 (description="PHOTOFF096", quantity="1")
<i>Int1d</i>	PSWD11 (description="PHOTOFF097", quantity="1")
<i>Int1d</i>	PSWA10 (description="PHOTOFF098", quantity="1")
<i>Int1d</i>	PSWE10 (description="PHOTOFF099", quantity="1")
<i>Int1d</i>	PSWC10 (description="PHOTOFF100", quantity="1")
<i>Int1d</i>	PSWB10 (description="PHOTOFF101", quantity="1")
<i>Int1d</i>	PSWD10 (description="PHOTOFF102", quantity="1")
<i>Int1d</i>	PSWA9 (description="PHOTOFF103", quantity="1")
<i>Int1d</i>	PSWE9 (description="PHOTOFF104", quantity="1")
<i>Int1d</i>	PSWC9 (description="PHOTOFF105", quantity="1")
<i>Int1d</i>	PSWB9 (description="PHOTOFF106", quantity="1")
<i>Int1d</i>	PSWD9 (description="PHOTOFF107", quantity="1")
<i>Int1d</i>	PSWA8 (description="PHOTOFF108", quantity="1")
<i>Int1d</i>	PSWC8 (description="PHOTOFF109", quantity="1")
<i>Int1d</i>	PSWE8 (description="PHOTOFF110", quantity="1")
<i>Int1d</i>	PSWD8 (description="PHOTOFF111", quantity="1")
<i>Int1d</i>	PSWB8 (description="PHOTOFF112", quantity="1")
<i>Int1d</i>	PSWC7 (description="PHOTOFF113", quantity="1")
<i>Int1d</i>	PSWE7 (description="PHOTOFF114", quantity="1")
<i>Int1d</i>	PSWA7 (description="PHOTOFF115", quantity="1")
<i>Int1d</i>	PSWD7 (description="PHOTOFF116", quantity="1")
<i>Int1d</i>	PSWB7 (description="PHOTOFF117", quantity="1")
<i>Int1d</i>	PSWC6 (description="PHOTOFF118", quantity="1")
<i>Int1d</i>	PSWE6 (description="PHOTOFF119", quantity="1")
<i>Int1d</i>	PSWA6 (description="PHOTOFF120", quantity="1")
<i>Int1d</i>	PSWG5 (description="PHOTOFF121", quantity="1")
<i>Int1d</i>	PSWH6 (description="PHOTOFF122", quantity="1")
<i>Int1d</i>	PSWJ6 (description="PHOTOFF123", quantity="1")
<i>Int1d</i>	PSWF6 (description="PHOTOFF124", quantity="1")

<i>Int1d</i>	PSWG6 (description="PHOTOFF125", quantity="1")
<i>Int1d</i>	PSWH7 (description="PHOTOFF126", quantity="1")
<i>Int1d</i>	PSWF7 (description="PHOTOFF127", quantity="1")
<i>Int1d</i>	PSWJ7 (description="PHOTOFF128", quantity="1")
<i>Int1d</i>	PSWG7 (description="PHOTOFF129", quantity="1")
<i>Int1d</i>	PSWH8 (description="PHOTOFF130", quantity="1")
<i>Int1d</i>	PSWF8 (description="PHOTOFF131", quantity="1")
<i>Int1d</i>	PSWG8 (description="PHOTOFF132", quantity="1")
<i>Int1d</i>	PSWJ8 (description="PHOTOFF133", quantity="1")
<i>Int1d</i>	PSWF9 (description="PHOTOFF134", quantity="1")
<i>Int1d</i>	PSWH9 (description="PHOTOFF135", quantity="1")
<i>Int1d</i>	PSWG9 (description="PHOTOFF136", quantity="1")
<i>Int1d</i>	PSWJ9 (description="PHOTOFF137", quantity="1")
<i>Int1d</i>	PSWF10 (description="PHOTOFF138", quantity="1")
<i>Int1d</i>	PSWH10 (description="PHOTOFF139", quantity="1")
<i>Int1d</i>	PSWG10 (description="PHOTOFF140", quantity="1")
<i>Int1d</i>	PSWF11 (description="PHOTOFF141", quantity="1")
<i>Int1d</i>	PSWJ10 (description="PHOTOFF142", quantity="1")
<i>Int1d</i>	PSWH11 (description="PHOTOFF143", quantity="1")
<i>Int1d</i>	PSWG11 (description="PHOTOFF144", quantity="1")
<i>Int1d</i>	PLWR1 (description="PHOTOFF145", quantity="1")
<i>Int1d</i>	PLWA8 (description="PHOTOFF146", quantity="1")
<i>Int1d</i>	PLWA7 (description="PHOTOFF147", quantity="1")
<i>Int1d</i>	PLWA6 (description="PHOTOFF148", quantity="1")
<i>Int1d</i>	PLWA9 (description="PHOTOFF149", quantity="1")
<i>Int1d</i>	PLWC9 (description="PHOTOFF150", quantity="1")
<i>Int1d</i>	PLWB8 (description="PHOTOFF151", quantity="1")
<i>Int1d</i>	PLWB7 (description="PHOTOFF152", quantity="1")
<i>Int1d</i>	PLWC7 (description="PHOTOFF153", quantity="1")
<i>Int1d</i>	PLWB5 (description="PHOTOFF154", quantity="1")
<i>Int1d</i>	PLWB6 (description="PHOTOFF155", quantity="1")
<i>Int1d</i>	PLWA5 (description="PHOTOFF156", quantity="1")
<i>Int1d</i>	PLWT1 (description="PHOTOFF157", quantity="1")
<i>Int1d</i>	PLWB4 (description="PHOTOFF158", quantity="1")
<i>Int1d</i>	PLWC4 (description="PHOTOFF159", quantity="1")
<i>Int1d</i>	PLWB3 (description="PHOTOFF160", quantity="1")
<i>Int1d</i>	PLWC2 (description="PHOTOFF161", quantity="1")
<i>Int1d</i>	PLWB2 (description="PHOTOFF162", quantity="1")
<i>Int1d</i>	PLWB1 (description="PHOTOFF163", quantity="1")
<i>Int1d</i>	PLWA3 (description="PHOTOFF164", quantity="1")
<i>Int1d</i>	PLWA4 (description="PHOTOFF165", quantity="1")
<i>Int1d</i>	PLWA1 (description="PHOTOFF166", quantity="1")

<i>Int1d</i>	PLWDP1 (description="PHOTOFF167", quantity="1")
<i>Int1d</i>	PLWA2 (description="PHOTOFF168", quantity="1")
<i>Int1d</i>	PLWE1 (description="PHOTOFF169", quantity="1")
<i>Int1d</i>	PLWE2 (description="PHOTOFF170", quantity="1")
<i>Int1d</i>	PLWE3 (description="PHOTOFF171", quantity="1")
<i>Int1d</i>	PLWE4 (description="PHOTOFF172", quantity="1")
<i>Int1d</i>	PLWD1 (description="PHOTOFF173", quantity="1")
<i>Int1d</i>	PLWD2 (description="PHOTOFF174", quantity="1")
<i>Int1d</i>	PLWD3 (description="PHOTOFF175", quantity="1")
<i>Int1d</i>	PLWD4 (description="PHOTOFF176", quantity="1")
<i>Int1d</i>	PLWC1 (description="PHOTOFF177", quantity="1")
<i>Int1d</i>	PLWC3 (description="PHOTOFF178", quantity="1")
<i>Int1d</i>	PLWC5 (description="PHOTOFF179", quantity="1")
<i>Int1d</i>	PLWT2 (description="PHOTOFF180", quantity="1")
<i>Int1d</i>	PLWE5 (description="PHOTOFF181", quantity="1")
<i>Int1d</i>	PLWC6 (description="PHOTOFF182", quantity="1")
<i>Int1d</i>	PLWC8 (description="PHOTOFF183", quantity="1")
<i>Int1d</i>	PLWD5 (description="PHOTOFF184", quantity="1")
<i>Int1d</i>	PLWD6 (description="PHOTOFF185", quantity="1")
<i>Int1d</i>	PLWD7 (description="PHOTOFF186", quantity="1")
<i>Int1d</i>	PLWD8 (description="PHOTOFF187", quantity="1")
<i>Int1d</i>	PLWE7 (description="PHOTOFF188", quantity="1")
<i>Int1d</i>	PLWE6 (description="PHOTOFF189", quantity="1")
<i>Int1d</i>	PLWE8 (description="PHOTOFF190", quantity="1")
<i>Int1d</i>	PLWDP2 (description="PHOTOFF191", quantity="1")
<i>Int1d</i>	PLWE9 (description="PHOTOFF192", quantity="1")
<i>Int1d</i>	PMWA13 (description="PHOTOFF193", quantity="1")
<i>Int1d</i>	PMWT1 (description="PHOTOFF194", quantity="1")
<i>Int1d</i>	PMWB12 (description="PHOTOFF195", quantity="1")
<i>Int1d</i>	PMWC13 (description="PHOTOFF196", quantity="1")
<i>Int1d</i>	PMWA12 (description="PHOTOFF197", quantity="1")
<i>Int1d</i>	PMWD12 (description="PHOTOFF198", quantity="1")
<i>Int1d</i>	PMWC12 (description="PHOTOFF199", quantity="1")
<i>Int1d</i>	PMWB11 (description="PHOTOFF200", quantity="1")
<i>Int1d</i>	PMWA11 (description="PHOTOFF201", quantity="1")
<i>Int1d</i>	PMWE13 (description="PHOTOFF202", quantity="1")
<i>Int1d</i>	PMWD11 (description="PHOTOFF203", quantity="1")
<i>Int1d</i>	PMWC11 (description="PHOTOFF204", quantity="1")
<i>Int1d</i>	PMWB10 (description="PHOTOFF205", quantity="1")
<i>Int1d</i>	PMWA10 (description="PHOTOFF206", quantity="1")
<i>Int1d</i>	PMWD10 (description="PHOTOFF207", quantity="1")
<i>Int1d</i>	PMWB9 (description="PHOTOFF208", quantity="1")

<i>Int1d</i>	PMWC10 (description="PHOTOFF209", quantity="1")
<i>Int1d</i>	PMWC9 (description="PHOTOFF210", quantity="1")
<i>Int1d</i>	PMWA9 (description="PHOTOFF211", quantity="1")
<i>Int1d</i>	PMWB8 (description="PHOTOFF212", quantity="1")
<i>Int1d</i>	PMWA8 (description="PHOTOFF213", quantity="1")
<i>Int1d</i>	PMWD8 (description="PHOTOFF214", quantity="1")
<i>Int1d</i>	PMWC8 (description="PHOTOFF215", quantity="1")
<i>Int1d</i>	PMWB7 (description="PHOTOFF216", quantity="1")
<i>Int1d</i>	PMWR1 (description="PHOTOFF217", quantity="1")
<i>Int1d</i>	PMWG1 (description="PHOTOFF218", quantity="1")
<i>Int1d</i>	PMWT2 (description="PHOTOFF219", quantity="1")
<i>Int1d</i>	PMWE1 (description="PHOTOFF220", quantity="1")
<i>Int1d</i>	PMWD1 (description="PHOTOFF221", quantity="1")
<i>Int1d</i>	PMWF1 (description="PHOTOFF222", quantity="1")
<i>Int1d</i>	PMWE2 (description="PHOTOFF223", quantity="1")
<i>Int1d</i>	PMWG2 (description="PHOTOFF224", quantity="1")
<i>Int1d</i>	PMWF2 (description="PHOTOFF225", quantity="1")
<i>Int1d</i>	PMWG3 (description="PHOTOFF226", quantity="1")
<i>Int1d</i>	PMWE3 (description="PHOTOFF227", quantity="1")
<i>Int1d</i>	PMWD3 (description="PHOTOFF228", quantity="1")
<i>Int1d</i>	PMWF3 (description="PHOTOFF229", quantity="1")
<i>Int1d</i>	PMWG4 (description="PHOTOFF230", quantity="1")
<i>Int1d</i>	PMWE4 (description="PHOTOFF231", quantity="1")
<i>Int1d</i>	PMWF4 (description="PHOTOFF232", quantity="1")
<i>Int1d</i>	PMWE5 (description="PHOTOFF233", quantity="1")
<i>Int1d</i>	PMWD5 (description="PHOTOFF234", quantity="1")
<i>Int1d</i>	PMWF5 (description="PHOTOFF235", quantity="1")
<i>Int1d</i>	PMWG5 (description="PHOTOFF236", quantity="1")
<i>Int1d</i>	PMWE6 (description="PHOTOFF237", quantity="1")
<i>Int1d</i>	PMWG6 (description="PHOTOFF238", quantity="1")
<i>Int1d</i>	PMWF6 (description="PHOTOFF239", quantity="1")
<i>Int1d</i>	PMWG7 (description="PHOTOFF240", quantity="1")
<i>Int1d</i>	PMWF10 (description="PHOTOFF241", quantity="1")
<i>Int1d</i>	PMWE11 (description="PHOTOFF242", quantity="1")
<i>Int1d</i>	PMWG11 (description="PHOTOFF243", quantity="1")
<i>Int1d</i>	PMWF11 (description="PHOTOFF244", quantity="1")
<i>Int1d</i>	PMWE12 (description="PHOTOFF245", quantity="1")
<i>Int1d</i>	PMWG12 (description="PHOTOFF246", quantity="1")
<i>Int1d</i>	PMWF12 (description="PHOTOFF247", quantity="1")
<i>Int1d</i>	PMWG13 (description="PHOTOFF248", quantity="1")
<i>Int1d</i>	PMWDP2 (description="PHOTOFF249", quantity="1")
<i>Int1d</i>	PMWE7 (description="PHOTOFF250", quantity="1")

<i>Int1d</i>	PMWD7 (description="PHOTOFF251", quantity="1")
<i>Int1d</i>	PMWF7 (description="PHOTOFF252", quantity="1")
<i>Int1d</i>	PMWE8 (description="PHOTOFF253", quantity="1")
<i>Int1d</i>	PMWG8 (description="PHOTOFF254", quantity="1")
<i>Int1d</i>	PMWF8 (description="PHOTOFF255", quantity="1")
<i>Int1d</i>	PMWE9 (description="PHOTOFF256", quantity="1")
<i>Int1d</i>	PMWG9 (description="PHOTOFF257", quantity="1")
<i>Int1d</i>	PMWD9 (description="PHOTOFF258", quantity="1")
<i>Int1d</i>	PMWF9 (description="PHOTOFF259", quantity="1")
<i>Int1d</i>	PMWE10 (description="PHOTOFF260", quantity="1")
<i>Int1d</i>	PMWG10 (description="PHOTOFF261", quantity="1")
<i>Int1d</i>	PMWC4 (description="PHOTOFF262", quantity="1")
<i>Int1d</i>	PMWB3 (description="PHOTOFF263", quantity="1")
<i>Int1d</i>	PMWC3 (description="PHOTOFF264", quantity="1")
<i>Int1d</i>	PMWB2 (description="PHOTOFF265", quantity="1")
<i>Int1d</i>	PMWD2 (description="PHOTOFF266", quantity="1")
<i>Int1d</i>	PMWA3 (description="PHOTOFF267", quantity="1")
<i>Int1d</i>	PMWA2 (description="PHOTOFF268", quantity="1")
<i>Int1d</i>	PMWC2 (description="PHOTOFF269", quantity="1")
<i>Int1d</i>	PMWB1 (description="PHOTOFF270", quantity="1")
<i>Int1d</i>	PMWA1 (description="PHOTOFF271", quantity="1")
<i>Int1d</i>	PMWDP1 (description="PHOTOFF272", quantity="1")
<i>Int1d</i>	PMWC1 (description="PHOTOFF273", quantity="1")
<i>Int1d</i>	PMWA7 (description="PHOTOFF274", quantity="1")
<i>Int1d</i>	PMWA6 (description="PHOTOFF275", quantity="1")
<i>Int1d</i>	PMWB6 (description="PHOTOFF276", quantity="1")
<i>Int1d</i>	PMWC7 (description="PHOTOFF277", quantity="1")
<i>Int1d</i>	PMWA5 (description="PHOTOFF278", quantity="1")
<i>Int1d</i>	PMWB5 (description="PHOTOFF279", quantity="1")
<i>Int1d</i>	PMWC6 (description="PHOTOFF280", quantity="1")
<i>Int1d</i>	PMWD6 (description="PHOTOFF281", quantity="1")
<i>Int1d</i>	PMWB4 (description="PHOTOFF282", quantity="1")
<i>Int1d</i>	PMWC5 (description="PHOTOFF283", quantity="1")
<i>Int1d</i>	PMWD4 (description="PHOTOFF284", quantity="1")
<i>Int1d</i>	PMWA4 (description="PHOTOFF285", quantity="1")
<i>Int1d</i>	PTCP1 (description="PHOTOFF286", quantity="1")
<i>Int1d</i>	PTCP2 (description="PHOTOFF287", quantity="1")
<i>Int1d</i>	PTCP3 (description="PHOTOFF288", quantity="1")
<i>Int1d</i>	adcFlags (description="PHOTOFFADCFLGS", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")

	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.56. SPIRE Product Level 0.5 - Subsystem Control Unit Timeline

<i>product (type="SCUT", description="Subsystem Control Unit Timeline")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
StringParameter	elecSide (description="Electronic side")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")

DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
StringParameter	origin (description="Site that created the product", quantity="arcsec a-1")
StringParameter	type (description="Product Type Identification", quantity="arcsec a-1")
StringParameter	description (description="Name of this product", quantity="arcsec a-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="arcsec a-1")
StringParameter	level (description="The level of the product", quantity="arcsec a-1")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec a-1")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec a-1")
LongParameter	maskMaster (description="Mask value for master bit", quantity="arcsec a-1")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="arcsec a-1")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="arcsec a-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="ms/min")
StringParameter	scanSpeed (description="Speed of scan", quantity="ms/min")
BooleanParameter	coolerBurpDetected (description="Indicates a cooler burp", quantity="ms/min")
<i>Columns</i>	
<i>table dataset</i>	(name="signal", description="Signal timelines")
<i>Metadata</i>	
<i>Columns</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>DoubleId</i>	pumpHTemp (description="SCUPHTEMP", quantity="K")
<i>DoubleId</i>	pumpHSTemp (description="SCUPHSTEMP", quantity="K")
<i>DoubleId</i>	evapHSTemp (description="SCUEVHSTEMP", quantity="K")
<i>DoubleId</i>	shuntTemp (description="SCUSHUNTTEMP", quantity="K")
<i>DoubleId</i>	emcFilTemp (description="SCUEMCFILTEMP", quantity="K")
<i>DoubleId</i>	specL0Temp (description="SCUSL0TEMP", quantity="K")
<i>DoubleId</i>	photL0Temp (description="SCUPL0TEMP", quantity="K")
<i>DoubleId</i>	osbTemp (description="SCUOPTTEMP", quantity="K")
<i>DoubleId</i>	fpuBaffTemp (description="SCUBAFTEMP", quantity="K")
<i>DoubleId</i>	bsmIntTemp (description="SCUBSMIFTEMP", quantity="K")
<i>DoubleId</i>	scal2Temp (description="SCUSCAL2TEMP", quantity="K")
<i>DoubleId</i>	scal4Temp (description="SCUSCAL4TEMP", quantity="K")
<i>DoubleId</i>	scalFlanTemp (description="SCUSCALTEMP", quantity="K")

<i>Double1d</i>	smecIntTemp (description="SCUSMECIFTEMP", quantity="K")
<i>Double1d</i>	smecTemp (description="SCUSMECTEMP", quantity="K")
<i>Double1d</i>	bsmTemp (description="SCUBSMTEMP", quantity="K")
<i>Double1d</i>	ceSubKTemp (description="SCUSUBKTEMP", quantity="K")
<i>Double1d</i>	tchVolt (description="SCUTCHTRV", quantity="V")
<i>Double1d</i>	pcalCurr (description="SCUPCALCURR", quantity="A")
<i>Double1d</i>	pcalVolt (description="SCUPCALV", quantity="V")
<i>Double1d</i>	scal2Curr (description="SCUSCAL2CURR", quantity="A")
<i>Double1d</i>	scal2Volt (description="SCUSCAL2V", quantity="V")
<i>Double1d</i>	scal4Curr (description="SCUSCAL4CURR", quantity="A")
<i>Double1d</i>	scal4Volt (description="SCUSCAL4V", quantity="V")
<i>Int1d</i>	adcFlags (description="SCUADC_FLAGS", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.57. SPIRE Product Level 0.5 - Photometer Detector Timeline

<i>product (type="PDT", description="Photometer Detector Timeline")</i>	
<i>Metada- ta</i>	
<i>StringParame- ter</i>	telescope (description="Name of telescope")
<i>StringParame- ter</i>	instrument (description="Instrument attached to this product")
<i>StringParame- ter</i>	subsystem (description="Instrument Subsystem")
<i>StringParame- ter</i>	source (description="TM source packet name")
<i>StringParame- ter</i>	creator (description="Generator of this product")
<i>StringParame- ter</i>	object (description="Target name")
<i>StringParame- ter</i>	observer (description="Observer name")
<i>StringParame- ter</i>	proposal (description="Proposal name")
<i>LongParame- ter</i>	obsid (description="Observation identifier")
<i>LongParame- ter</i>	odNumber (description="Operational day number")

DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
DoubleParameter	biasFreq (description="Bias frequency", quantity="Hz")
StringParameter	elecSide (description="Electronic side", quantity="Hz")
StringParameter	modelName (description="Model name attached to this product", quantity="Hz")
StringParameter	formatVersion (description="Version of product format", quantity="Hz")
StringParameter	missionConfig (description="Mission configuration", quantity="Hz")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")

StringParameter	origin (description="Site that created the product", quantity="arcsec a-1")
StringParameter	type (description="Product Type Identification", quantity="arcsec a-1")
StringParameter	description (description="Name of this product", quantity="arcsec a-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="arcsec a-1")
StringParameter	level (description="The level of the product", quantity="arcsec a-1")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec a-1")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec a-1")
StringParameter	signalTable (description="Name of the signal table", quantity="arcsec a-1")
LongParameter	maskDead (description="Mask value for dead channel", quantity="arcsec a-1")
LongParameter	maskMaster (description="Mask value for master bit", quantity="arcsec a-1")
LongParameter	maskNoisy (description="Mask value for noisy channel", quantity="arcsec a-1")
LongParameter	maskSlow (description="Mask value for slow channel", quantity="arcsec a-1")
BooleanParameter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="arcsec a-1")
DoubleParameter	ratioTruncatedPLW (description="Maximum ratio of out of range values to total number of values in PLW data.", quantity="arcsec a-1")
DoubleParameter	ratioTruncatedPMW (description="Maximum ratio of out of range values to total number of values in PMW data.", quantity="arcsec a-1")
DoubleParameter	ratioTruncatedPSW (description="Maximum ratio of out of range values to total number of values in PSW data.", quantity="arcsec a-1")
DoubleParameter	ratioTruncatedPTC (description="Total fraction of out of range values for PTC", quantity="arcsec a-1")
LongParameter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="arcsec a-1")
LongParameter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="arcsec a-1")
LongParameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="arcsec a-1")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="arcsec a-1")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="arcsec a-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")

BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
BooleanParameter	rcRollApp (description="RC roll correction applied", quantity="ms/min")
DoubleParameter	subkTempDrift (description="Drift measured by the SubK temperature probe", quantity="K")
LongParameter	maskGlitchL1Detected (description="Mask value for first level glitch detected", quantity="K")
LongParameter	maskGlitchL1NotRemoved (description="Mask value for first level glitch detected and not removed", quantity="K")
LongParameter	maskNotChoppedToSky (description="Mask value for channel not chopped to sky", quantity="K")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="K")
DoubleParameter	plwBiasAmpl (description="PLW bias amplitude", quantity="V")
DoubleParameter	pmwBiasAmpl (description="PMW bias amplitude", quantity="V")
DoubleParameter	pswBiasAmpl (description="PSW bias amplitude", quantity="V")
DoubleParameter	ptcBiasAmpl (description="PTC bias amplitude", quantity="V")
DoubleParameter	plwBiasPhase (description="PLW bias phase", quantity="rad")
DoubleParameter	pmwBiasPhase (description="PMW bias phase", quantity="rad")
DoubleParameter	pswBiasPhase (description="PSW bias phase", quantity="rad")
DoubleParameter	ptcBiasPhase (description="PTC bias phase", quantity="rad")
StringParameter	scanSpeed (description="Speed of scan", quantity="rad")
LongParameter	scanLineNum (description="Scan line number", quantity="rad")
LongParameter	numberBadVoltageOffsetPLW (description="Number of PLW bolometers with bad voltage offset resets", quantity="rad")
LongParameter	numberBadVoltageOffsetPMW (description="Number of PMW bolometers with bad voltage offset resets", quantity="rad")
LongParameter	numberBadVoltageOffsetPSW (description="Number of PSW bolometers with bad voltage offset resets", quantity="rad")
BooleanParameter	coolerBurpDetected (description="Indicates a cooler burp", quantity="rad")
DoubleParameter	ratioPhotFirstLevelGlitchesPSW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the PSW array", quantity="rad")
DoubleParameter	ratioPhotFirstLevelGlitchesPMW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the PMW array", quantity="rad")

DoubleParameter	ratioPhotFirstLevelGlitchesPLW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the PLW array", quantity="rad")
Columns	
table dataset	(name="voltage", description="Voltages table")
Metadata	
Columns	
DoubleId	sampleTime (description="Sample time", quantity="TAI")
FloatId	PSWR1 (description="PHOTFARRAY001", quantity="V")
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FloatId	PSWT1 (description="PHOTFARRAY003", quantity="V")
FloatId	PSWB16 (description="PHOTFARRAY004", quantity="V")
FloatId	PSWC15 (description="PHOTFARRAY005", quantity="V")
FloatId	PSWA15 (description="PHOTFARRAY006", quantity="V")
FloatId	PSWD15 (description="PHOTFARRAY007", quantity="V")
FloatId	PSWB15 (description="PHOTFARRAY008", quantity="V")
FloatId	PSWC14 (description="PHOTFARRAY009", quantity="V")
FloatId	PSWD14 (description="PHOTFARRAY010", quantity="V")
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FloatId	PSWC11 (description="PHOTFARRAY023", quantity="V")
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FloatId	PSWG1 (description="PHOTFARRAY029", quantity="V")
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FloatId	PSWH2 (description="PHOTFARRAY031", quantity="V")
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<i>Float1d</i>	PSWB4 (description="PHOTFARRAY059", quantity="V")
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<i>FloatId</i>	PMWC3 (description="PHOTFARRAY264", quantity="V")
<i>FloatId</i>	PMWB2 (description="PHOTFARRAY265", quantity="V")
<i>FloatId</i>	PMWD2 (description="PHOTFARRAY266", quantity="V")
<i>FloatId</i>	PMWA3 (description="PHOTFARRAY267", quantity="V")
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<i>FloatId</i>	PMWB1 (description="PHOTFARRAY270", quantity="V")
<i>FloatId</i>	PMWA1 (description="PHOTFARRAY271", quantity="V")
<i>FloatId</i>	PMWDP1 (description="PHOTFARRAY272", quantity="V")
<i>FloatId</i>	PMWC1 (description="PHOTFARRAY273", quantity="V")
<i>FloatId</i>	PMWA7 (description="PHOTFARRAY274", quantity="V")
<i>FloatId</i>	PMWA6 (description="PHOTFARRAY275", quantity="V")
<i>FloatId</i>	PMWB6 (description="PHOTFARRAY276", quantity="V")
<i>FloatId</i>	PMWC7 (description="PHOTFARRAY277", quantity="V")
<i>FloatId</i>	PMWA5 (description="PHOTFARRAY278", quantity="V")
<i>FloatId</i>	PMWB5 (description="PHOTFARRAY279", quantity="V")
<i>FloatId</i>	PMWC6 (description="PHOTFARRAY280", quantity="V")
<i>FloatId</i>	PMWD6 (description="PHOTFARRAY281", quantity="V")
<i>FloatId</i>	PMWB4 (description="PHOTFARRAY282", quantity="V")
<i>FloatId</i>	PMWC5 (description="PHOTFARRAY283", quantity="V")
<i>FloatId</i>	PMWD4 (description="PHOTFARRAY284", quantity="V")
<i>FloatId</i>	PMWA4 (description="PHOTFARRAY285", quantity="V")
<i>FloatId</i>	PTCP1 (description="PHOTFARRAY286", quantity="V")

<i>FloatId</i>	PTCP2 (description="PHOTFARRAY287", quantity="V")
<i>FloatId</i>	PTCP3 (description="PHOTFARRAY288", quantity="V")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="resistance", description="Resistances table")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="quality", description="Quality control metric quantities")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="temperature", description="Temperature")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.2.58. SPIRE Product Level 0.5 - Spectrometer Detector Timeline

<i>product (type="SDT", description="Spectrometer Detector Timeline")</i>	
<i>Metada-ta</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")

DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	jiggId (description="Jiggle ID")
LongParameter	pointNum (description="Pointing number")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
DoubleParameter	biasFreq (description="Bias frequency", quantity="Hz")
StringParameter	elecSide (description="Electronic side", quantity="Hz")
StringParameter	modelName (description="Model name attached to this product", quantity="Hz")
StringParameter	formatVersion (description="Version of product format", quantity="Hz")
StringParameter	missionConfig (description="Mission configuration", quantity="Hz")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")

DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
LongParameter	bbid (description="Building Block Identifier", quantity="km s-1")
StringParameter	bbTypeName (description="Building block type name", quantity="km s-1")
StringParameter	signalTable (description="Name of the signal table", quantity="km s-1")
LongParameter	maskDead (description="Mask value for dead channel", quantity="km s-1")
LongParameter	maskMaster (description="Mask value for master bit", quantity="km s-1")
LongParameter	maskNoisy (description="Mask value for noisy channel", quantity="km s-1")
LongParameter	maskSlow (description="Mask value for slow channel", quantity="km s-1")
BooleanParameter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="km s-1")
DoubleParameter	ratioTruncatedSSW (description="Maximum ratio of out of range values to total number of values in SSW data", quantity="km s-1")
DoubleParameter	ratioTruncatedSLW (description="Maximum ratio of out of range values to total number of values in SLW data", quantity="km s-1")
LongParameter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="km s-1")
LongParameter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="km s-1")
LongParameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="km s-1")

DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="km s-1")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="km s-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
DoubleParameter	slwBiasAmpl (description="SLW bias amplitude", quantity="V")
DoubleParameter	sswBiasAmpl (description="SSW bias amplitude", quantity="V")
DoubleParameter	slwBiasPhase (description="SLW bias phase", quantity="rad")
DoubleParameter	sswBiasPhase (description="SSW bias phase", quantity="rad")
BooleanParameter	rcRollApp (description="RC roll correction applied", quantity="rad")
DoubleParameter	subkTempDrift (description="Drift measured by the SubK temperature probe", quantity="K")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="K")
DoubleParameter	missingSciData (description="Percentage of missing science data", quantity="K")
Columns	
table dataset	(name="voltage", description="Voltages table")
Metadata	
Columns	
DoubleId	sampleTime (description="Sample time", quantity="TAI")
FloatId	SSWR1 (description="SPECFARRAY001", quantity="V")
FloatId	SSWA4 (description="SPECFARRAY002", quantity="V")
FloatId	SSWA3 (description="SPECFARRAY003", quantity="V")
FloatId	SSWA2 (description="SPECFARRAY004", quantity="V")
FloatId	SSWA1 (description="SPECFARRAY005", quantity="V")
FloatId	SSWDP1 (description="SPECFARRAY006", quantity="V")
FloatId	SSWB3 (description="SPECFARRAY007", quantity="V")
FloatId	SSWB2 (description="SPECFARRAY008", quantity="V")
FloatId	SSWB1 (description="SPECFARRAY009", quantity="V")
FloatId	SSWC3 (description="SPECFARRAY010", quantity="V")
FloatId	SSWC2 (description="SPECFARRAY011", quantity="V")
FloatId	SSWC1 (description="SPECFARRAY012", quantity="V")
FloatId	SSWD3 (description="SPECFARRAY013", quantity="V")
FloatId	SSWD2 (description="SPECFARRAY014", quantity="V")

<i>Float1d</i>	SSWD1 (description="SPECFARRAY015", quantity="V")
<i>Float1d</i>	SSWE3 (description="SPECFARRAY016", quantity="V")
<i>Float1d</i>	SSWE2 (description="SPECFARRAY017", quantity="V")
<i>Float1d</i>	SSWE1 (description="SPECFARRAY018", quantity="V")
<i>Float1d</i>	SSWF3 (description="SPECFARRAY019", quantity="V")
<i>Float1d</i>	SSWF2 (description="SPECFARRAY020", quantity="V")
<i>Float1d</i>	SSWF1 (description="SPECFARRAY021", quantity="V")
<i>Float1d</i>	SSWG1 (description="SPECFARRAY022", quantity="V")
<i>Float1d</i>	SSWT1 (description="SPECFARRAY023", quantity="V")
<i>Float1d</i>	SSWG2 (description="SPECFARRAY024", quantity="V")
<i>Float1d</i>	SSWE5 (description="SPECFARRAY025", quantity="V")
<i>Float1d</i>	SSWE4 (description="SPECFARRAY026", quantity="V")
<i>Float1d</i>	SSWD7 (description="SPECFARRAY027", quantity="V")
<i>Float1d</i>	SSWD6 (description="SPECFARRAY028", quantity="V")
<i>Float1d</i>	SSWD5 (description="SPECFARRAY029", quantity="V")
<i>Float1d</i>	SSWD4 (description="SPECFARRAY030", quantity="V")
<i>Float1d</i>	SSWC6 (description="SPECFARRAY031", quantity="V")
<i>Float1d</i>	SSWC5 (description="SPECFARRAY032", quantity="V")
<i>Float1d</i>	SSWC4 (description="SPECFARRAY033", quantity="V")
<i>Float1d</i>	SSWB5 (description="SPECFARRAY034", quantity="V")
<i>Float1d</i>	SSWB4 (description="SPECFARRAY035", quantity="V")
<i>Float1d</i>	SSWT2 (description="SPECFARRAY036", quantity="V")
<i>Float1d</i>	SSWG3 (description="SPECFARRAY037", quantity="V")
<i>Float1d</i>	SSWG4 (description="SPECFARRAY038", quantity="V")
<i>Float1d</i>	SSWDP2 (description="SPECFARRAY039", quantity="V")
<i>Float1d</i>	SSWF5 (description="SPECFARRAY040", quantity="V")
<i>Float1d</i>	SSWF4 (description="SPECFARRAY041", quantity="V")
<i>Float1d</i>	SSWE6 (description="SPECFARRAY042", quantity="V")
<i>Float1d</i>	SLWR1 (description="SPECFARRAY049", quantity="V")
<i>Float1d</i>	SLWT1 (description="SPECFARRAY050", quantity="V")
<i>Float1d</i>	SLWC1 (description="SPECFARRAY051", quantity="V")
<i>Float1d</i>	SLWDP1 (description="SPECFARRAY052", quantity="V")
<i>Float1d</i>	SLWB1 (description="SPECFARRAY053", quantity="V")
<i>Float1d</i>	SLWD1 (description="SPECFARRAY054", quantity="V")
<i>Float1d</i>	SLWE1 (description="SPECFARRAY055", quantity="V")
<i>Float1d</i>	SLWA1 (description="SPECFARRAY056", quantity="V")
<i>Float1d</i>	SLWC2 (description="SPECFARRAY057", quantity="V")
<i>Float1d</i>	SLWD2 (description="SPECFARRAY058", quantity="V")
<i>Float1d</i>	SLWB2 (description="SPECFARRAY059", quantity="V")
<i>Float1d</i>	SLWE2 (description="SPECFARRAY060", quantity="V")
<i>Float1d</i>	SLWA2 (description="SPECFARRAY061", quantity="V")
<i>Float1d</i>	SLWC3 (description="SPECFARRAY062", quantity="V")

<i>FloatId</i>	SLWD3 (description="SPECFARRAY063", quantity="V")
<i>FloatId</i>	SLWB3 (description="SPECFARRAY064", quantity="V")
<i>FloatId</i>	SLWE3 (description="SPECFARRAY065", quantity="V")
<i>FloatId</i>	SLWC4 (description="SPECFARRAY066", quantity="V")
<i>FloatId</i>	SLWDP2 (description="SPECFARRAY067", quantity="V")
<i>FloatId</i>	SLWD4 (description="SPECFARRAY068", quantity="V")
<i>FloatId</i>	SLWC5 (description="SPECFARRAY069", quantity="V")
<i>FloatId</i>	SLWB4 (description="SPECFARRAY070", quantity="V")
<i>FloatId</i>	SLWA3 (description="SPECFARRAY071", quantity="V")
<i>FloatId</i>	SLWT2 (description="SPECFARRAY072", quantity="V")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="resistance", description="Resistances table")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="Mask timelines")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="quality", description="Quality control metric quantities")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="temperature", description="Temperature")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.3. SPIRE Level-1 Products

5.3.1. SPIRE Product Level 1 - Photometer Scan Product

<i>product (type="PSP", description="Photometer Scan Product")</i>	
<i>Metada- ta</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")

StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
DoubleParameter	biasFreq (description="Bias frequency", quantity="Hz")
StringParameter	elecSide (description="Electronic side", quantity="Hz")
StringParameter	modelName (description="Model name attached to this product", quantity="Hz")
StringParameter	formatVersion (description="Version of product format", quantity="Hz")
StringParameter	missionConfig (description="Mission configuration", quantity="Hz")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")

DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	type (description="Product Type Identification", quantity="arcsec/year")
StringParameter	description (description="Name of this product", quantity="arcsec/year")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="arcsec/year")
StringParameter	calVersion (description="Calibration version", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec/year")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec/year")
StringParameter	signalTable (description="Name of the signal table", quantity="arcsec/year")
LongParameter	maskDead (description="Mask value for dead channel", quantity="arcsec/year")
LongParameter	maskMaster (description="Mask value for master bit", quantity="arcsec/year")
LongParameter	maskNoisy (description="Mask value for noisy channel", quantity="arcsec/year")
LongParameter	maskSlow (description="Mask value for slow channel", quantity="arcsec/year")
BooleanParameter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="arcsec/year")
DoubleParameter	ratioTruncatedPLW (description="Maximum ratio of out of range values to total number of values in PLW data.", quantity="arcsec/year")
DoubleParameter	ratioTruncatedPMW (description="Maximum ratio of out of range values to total number of values in PMW data.", quantity="arcsec/year")
DoubleParameter	ratioTruncatedPSW (description="Maximum ratio of out of range values to total number of values in PSW data.", quantity="arcsec/year")
DoubleParameter	ratioTruncatedPTC (description="Total fraction of out of range values for PTC", quantity="arcsec/year")
LongParameter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="arcsec/year")

LongParameter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="arcsec/year")
LongParameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="arcsec/year")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="arcsec/year")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="arcsec/year")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
BooleanParameter	rcRollApp (description="RC roll correction applied", quantity="ms/min")
DoubleParameter	subkTempDrift (description="Drift measured by the SubK temperature probe", quantity="K")
LongParameter	maskGlitchL1Detected (description="Mask value for first level glitch detected", quantity="K")
LongParameter	maskGlitchL1NotRemoved (description="Mask value for first level glitch detected and not removed", quantity="K")
DoubleParameter	ratioSamplesOutOfCalibrationRangePSW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="K")
LongParameter	numberBelowK3VoltagePSW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="K")
DoubleParameter	ratioSamplesOutOfCalibrationRangePMW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="K")
LongParameter	numberBelowK3VoltagePMW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="K")
DoubleParameter	ratioSamplesOutOfCalibrationRangePLW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="K")
LongParameter	numberBelowK3VoltagePLW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="K")
LongParameter	maskVoltageOol (description="Mask value for voltage out of fitted range", quantity="K")
LongParameter	maskVoltageBelowK3 (description="Mask value for voltage below K3", quantity="K")
LongParameter	maskNoRespData (description="Mask value for voltage out of fitted range and/or below K3", quantity="K")
DateParameter	respControlStamp (description="Control Stamp used to ensure synchronization of Flux Conversion and Temperature Drift correction tasks", quantity="K")

StringParameter	thermistorUsedInCorrectionPLW (description="Identifies Which PLW Thermistor Was Used in Correction Or If No Correction Was Done", quantity="K")
StringParameter	thermistorUsedInCorrectionPMW (description="Identifies Which PMW Thermistor Was Used in Correction Or If No Correction Was Done.", quantity="K")
StringParameter	thermistorUsedInCorrectionPSW (description="Identifies Which PSW Thermistor Was Used in Correction Or If No Correction Was Done.", quantity="K")
LongParameter	maskNotChoppedToSky (description="Mask value for channel not chopped to sky", quantity="K")
LongParameter	maskTsignalHdv (description="Mask value for thermistor/DP signal deviations are larger than expected", quantity="K")
LongParameter	maskJumpThermistorsDarksSignal (description="Mask value for signal jump in the thermistor/dark timeline", quantity="K")
LongParameter	maskNoThermistorAvailable (description="Mask value for all the available thermistors are affected by either saturation or signal jump", quantity="K")
LongParameter	maskNoDarkChannelAvailable (description="Mask value for all available dark channels in the array are affected by either saturation or signal jump", quantity="K")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="K")
DoubleParameter	plwBiasAmpl (description="PLW bias amplitude", quantity="V")
DoubleParameter	pmwBiasAmpl (description="PMW bias amplitude", quantity="V")
DoubleParameter	pswBiasAmpl (description="PSW bias amplitude", quantity="V")
DoubleParameter	ptcBiasAmpl (description="PTC bias amplitude", quantity="V")
DoubleParameter	plwBiasPhase (description="PLW bias phase", quantity="rad")
DoubleParameter	pmwBiasPhase (description="PMW bias phase", quantity="rad")
DoubleParameter	pswBiasPhase (description="PSW bias phase", quantity="rad")
DoubleParameter	ptcBiasPhase (description="PTC bias phase", quantity="rad")
BooleanParameter	temperatureDriftCorrectionDone (description="Indicate the status of the temperature correction.", quantity="rad")
StringParameter	scanSpeed (description="Speed of scan", quantity="rad")
LongParameter	scanLineNum (description="Scan line number", quantity="rad")
BooleanParameter	electricalCrosstalkCorrectionDone (description="Flag set when the electrical crosstalk correction is done", quantity="rad")
DateParameter	startNominalScanLine (description="Start date of the nominal scan line", quantity="rad")
DateParameter	endNominalScanLine (description="End date of the nominal scan line", quantity="rad")
LongParameter	numberBadVoltageOffsetPLW (description="Number of PLW bolometers with bad voltage offset resets", quantity="rad")

LongParameter	numberBadVoltageOffsetPMW (description="Number of PMW bolometers with bad voltage offset resets", quantity="rad")
LongParameter	numberBadVoltageOffsetPSW (description="Number of PSW bolometers with bad voltage offset resets", quantity="rad")
BooleanParameter	coolerBurpCorrected (description="Indicate the status of the cooler burp correction.", quantity="rad")
DoubleParameter	kappa (description="Value of standard deviations to use in jump detection algorithm", quantity="rad")
BooleanParameter	fluxConversionDone (description="Indicates nominal termination of FluxConversion Task", quantity="rad")
DoubleParameter	ratioPhotFirstLevelGlitchesPSW (description="Ratio of number of flagged samples over number of data samples in the detectors of the PSW array", quantity="rad")
DoubleParameter	ratioPhotFirstLevelGlitchesPMW (description="Ratio of number of flagged samples over number of data samples in the detectors of the PMW array", quantity="rad")
DoubleParameter	ratioPhotFirstLevelGlitchesPLW (description="Ratio of number of flagged samples over number of data samples in the detectors of the PLW array", quantity="rad")
LongParameter	bsmRangeDuringScan (description="Range of the BSM motion during scan map observations", quantity="rad")
Columns	
table dataset	(name="mask", description="Mask timelines")
Metadata	
Columns	
DoubleId	sampleTime (description="Sample time", quantity="TAI")
Int1d	PSWR1 (description="PHOTFARRAY001", quantity="1")
Int1d	PSWD16 (description="PHOTFARRAY002", quantity="1")
Int1d	PSWT1 (description="PHOTFARRAY003", quantity="1")
Int1d	PSWB16 (description="PHOTFARRAY004", quantity="1")
Int1d	PSWC15 (description="PHOTFARRAY005", quantity="1")
Int1d	PSWA15 (description="PHOTFARRAY006", quantity="1")
Int1d	PSWD15 (description="PHOTFARRAY007", quantity="1")
Int1d	PSWB15 (description="PHOTFARRAY008", quantity="1")
Int1d	PSWC14 (description="PHOTFARRAY009", quantity="1")
Int1d	PSWD14 (description="PHOTFARRAY010", quantity="1")
Int1d	PSWA14 (description="PHOTFARRAY011", quantity="1")
Int1d	PSWA13 (description="PHOTFARRAY012", quantity="1")
Int1d	PSWB14 (description="PHOTFARRAY013", quantity="1")
Int1d	PSWC13 (description="PHOTFARRAY014", quantity="1")
Int1d	PSWB13 (description="PHOTFARRAY015", quantity="1")
Int1d	PSWD13 (description="PHOTFARRAY016", quantity="1")
Int1d	PSWA12 (description="PHOTFARRAY017", quantity="1")
Int1d	PSWC12 (description="PHOTFARRAY018", quantity="1")
Int1d	PSWD12 (description="PHOTFARRAY019", quantity="1")
Int1d	PSWB12 (description="PHOTFARRAY020", quantity="1")
Int1d	PSWE11 (description="PHOTFARRAY021", quantity="1")

<i>Int1d</i>	PSWA11 (description="PHOTFARRAY022", quantity="1")
<i>Int1d</i>	PSWC11 (description="PHOTFARRAY023", quantity="1")
<i>Int1d</i>	PSWB11 (description="PHOTFARRAY024", quantity="1")
<i>Int1d</i>	PSWE1 (description="PHOTFARRAY025", quantity="1")
<i>Int1d</i>	PSWF1 (description="PHOTFARRAY026", quantity="1")
<i>Int1d</i>	PSWT2 (description="PHOTFARRAY027", quantity="1")
<i>Int1d</i>	PSWH1 (description="PHOTFARRAY028", quantity="1")
<i>Int1d</i>	PSWG1 (description="PHOTFARRAY029", quantity="1")
<i>Int1d</i>	PSWJ1 (description="PHOTFARRAY030", quantity="1")
<i>Int1d</i>	PSWH2 (description="PHOTFARRAY031", quantity="1")
<i>Int1d</i>	PSWF2 (description="PHOTFARRAY032", quantity="1")
<i>Int1d</i>	PSWJ2 (description="PHOTFARRAY033", quantity="1")
<i>Int1d</i>	PSWG2 (description="PHOTFARRAY034", quantity="1")
<i>Int1d</i>	PSWH3 (description="PHOTFARRAY035", quantity="1")
<i>Int1d</i>	PSWJ3 (description="PHOTFARRAY036", quantity="1")
<i>Int1d</i>	PSWE2 (description="PHOTFARRAY037", quantity="1")
<i>Int1d</i>	PSWF3 (description="PHOTFARRAY038", quantity="1")
<i>Int1d</i>	PSWG3 (description="PHOTFARRAY039", quantity="1")
<i>Int1d</i>	PSWH4 (description="PHOTFARRAY040", quantity="1")
<i>Int1d</i>	PSWJ4 (description="PHOTFARRAY041", quantity="1")
<i>Int1d</i>	PSWE3 (description="PHOTFARRAY042", quantity="1")
<i>Int1d</i>	PSWF4 (description="PHOTFARRAY043", quantity="1")
<i>Int1d</i>	PSWG4 (description="PHOTFARRAY044", quantity="1")
<i>Int1d</i>	PSWH5 (description="PHOTFARRAY045", quantity="1")
<i>Int1d</i>	PSWE4 (description="PHOTFARRAY046", quantity="1")
<i>Int1d</i>	PSWJ5 (description="PHOTFARRAY047", quantity="1")
<i>Int1d</i>	PSWF5 (description="PHOTFARRAY048", quantity="1")
<i>Int1d</i>	PSWD6 (description="PHOTFARRAY049", quantity="1")
<i>Int1d</i>	PSWB6 (description="PHOTFARRAY050", quantity="1")
<i>Int1d</i>	PSWC5 (description="PHOTFARRAY051", quantity="1")
<i>Int1d</i>	PSWA5 (description="PHOTFARRAY052", quantity="1")
<i>Int1d</i>	PSWE5 (description="PHOTFARRAY053", quantity="1")
<i>Int1d</i>	PSWB5 (description="PHOTFARRAY054", quantity="1")
<i>Int1d</i>	PSWD5 (description="PHOTFARRAY055", quantity="1")
<i>Int1d</i>	PSWC4 (description="PHOTFARRAY056", quantity="1")
<i>Int1d</i>	PSWA4 (description="PHOTFARRAY057", quantity="1")
<i>Int1d</i>	PSWD4 (description="PHOTFARRAY058", quantity="1")
<i>Int1d</i>	PSWB4 (description="PHOTFARRAY059", quantity="1")
<i>Int1d</i>	PSWC3 (description="PHOTFARRAY060", quantity="1")
<i>Int1d</i>	PSWB3 (description="PHOTFARRAY061", quantity="1")
<i>Int1d</i>	PSWA3 (description="PHOTFARRAY062", quantity="1")
<i>Int1d</i>	PSWA2 (description="PHOTFARRAY063", quantity="1")

<i>Int1d</i>	PSWD3 (description="PHOTFARRAY064", quantity="1")
<i>Int1d</i>	PSWC2 (description="PHOTFARRAY065", quantity="1")
<i>Int1d</i>	PSWB2 (description="PHOTFARRAY066", quantity="1")
<i>Int1d</i>	PSWD2 (description="PHOTFARRAY067", quantity="1")
<i>Int1d</i>	PSWA1 (description="PHOTFARRAY068", quantity="1")
<i>Int1d</i>	PSWC1 (description="PHOTFARRAY069", quantity="1")
<i>Int1d</i>	PSWB1 (description="PHOTFARRAY070", quantity="1")
<i>Int1d</i>	PSWDP1 (description="PHOTFARRAY071", quantity="1")
<i>Int1d</i>	PSWD1 (description="PHOTFARRAY072", quantity="1")
<i>Int1d</i>	PSWF12 (description="PHOTFARRAY073", quantity="1")
<i>Int1d</i>	PSWJ11 (description="PHOTFARRAY074", quantity="1")
<i>Int1d</i>	PSWE12 (description="PHOTFARRAY075", quantity="1")
<i>Int1d</i>	PSWH12 (description="PHOTFARRAY076", quantity="1")
<i>Int1d</i>	PSWG12 (description="PHOTFARRAY077", quantity="1")
<i>Int1d</i>	PSWF13 (description="PHOTFARRAY078", quantity="1")
<i>Int1d</i>	PSWE13 (description="PHOTFARRAY079", quantity="1")
<i>Int1d</i>	PSWJ12 (description="PHOTFARRAY080", quantity="1")
<i>Int1d</i>	PSWH13 (description="PHOTFARRAY081", quantity="1")
<i>Int1d</i>	PSWG13 (description="PHOTFARRAY082", quantity="1")
<i>Int1d</i>	PSWF14 (description="PHOTFARRAY083", quantity="1")
<i>Int1d</i>	PSWE14 (description="PHOTFARRAY084", quantity="1")
<i>Int1d</i>	PSWJ13 (description="PHOTFARRAY085", quantity="1")
<i>Int1d</i>	PSWH14 (description="PHOTFARRAY086", quantity="1")
<i>Int1d</i>	PSWG14 (description="PHOTFARRAY087", quantity="1")
<i>Int1d</i>	PSWJ14 (description="PHOTFARRAY088", quantity="1")
<i>Int1d</i>	PSWF15 (description="PHOTFARRAY089", quantity="1")
<i>Int1d</i>	PSWH15 (description="PHOTFARRAY090", quantity="1")
<i>Int1d</i>	PSWJ15 (description="PHOTFARRAY091", quantity="1")
<i>Int1d</i>	PSWG15 (description="PHOTFARRAY092", quantity="1")
<i>Int1d</i>	PSWH16 (description="PHOTFARRAY093", quantity="1")
<i>Int1d</i>	PSWDP2 (description="PHOTFARRAY094", quantity="1")
<i>Int1d</i>	PSWF16 (description="PHOTFARRAY095", quantity="1")
<i>Int1d</i>	PSWE15 (description="PHOTFARRAY096", quantity="1")
<i>Int1d</i>	PSWD11 (description="PHOTFARRAY097", quantity="1")
<i>Int1d</i>	PSWA10 (description="PHOTFARRAY098", quantity="1")
<i>Int1d</i>	PSWE10 (description="PHOTFARRAY099", quantity="1")
<i>Int1d</i>	PSWC10 (description="PHOTFARRAY100", quantity="1")
<i>Int1d</i>	PSWB10 (description="PHOTFARRAY101", quantity="1")
<i>Int1d</i>	PSWD10 (description="PHOTFARRAY102", quantity="1")
<i>Int1d</i>	PSWA9 (description="PHOTFARRAY103", quantity="1")
<i>Int1d</i>	PSWE9 (description="PHOTFARRAY104", quantity="1")
<i>Int1d</i>	PSWC9 (description="PHOTFARRAY105", quantity="1")

<i>Int1d</i>	PSWB9 (description="PHOTFARRAY106", quantity="1")
<i>Int1d</i>	PSWD9 (description="PHOTFARRAY107", quantity="1")
<i>Int1d</i>	PSWA8 (description="PHOTFARRAY108", quantity="1")
<i>Int1d</i>	PSWC8 (description="PHOTFARRAY109", quantity="1")
<i>Int1d</i>	PSWE8 (description="PHOTFARRAY110", quantity="1")
<i>Int1d</i>	PSWD8 (description="PHOTFARRAY111", quantity="1")
<i>Int1d</i>	PSWB8 (description="PHOTFARRAY112", quantity="1")
<i>Int1d</i>	PSWC7 (description="PHOTFARRAY113", quantity="1")
<i>Int1d</i>	PSWE7 (description="PHOTFARRAY114", quantity="1")
<i>Int1d</i>	PSWA7 (description="PHOTFARRAY115", quantity="1")
<i>Int1d</i>	PSWD7 (description="PHOTFARRAY116", quantity="1")
<i>Int1d</i>	PSWB7 (description="PHOTFARRAY117", quantity="1")
<i>Int1d</i>	PSWC6 (description="PHOTFARRAY118", quantity="1")
<i>Int1d</i>	PSWE6 (description="PHOTFARRAY119", quantity="1")
<i>Int1d</i>	PSWA6 (description="PHOTFARRAY120", quantity="1")
<i>Int1d</i>	PSWG5 (description="PHOTFARRAY121", quantity="1")
<i>Int1d</i>	PSWH6 (description="PHOTFARRAY122", quantity="1")
<i>Int1d</i>	PSWJ6 (description="PHOTFARRAY123", quantity="1")
<i>Int1d</i>	PSWF6 (description="PHOTFARRAY124", quantity="1")
<i>Int1d</i>	PSWG6 (description="PHOTFARRAY125", quantity="1")
<i>Int1d</i>	PSWH7 (description="PHOTFARRAY126", quantity="1")
<i>Int1d</i>	PSWF7 (description="PHOTFARRAY127", quantity="1")
<i>Int1d</i>	PSWJ7 (description="PHOTFARRAY128", quantity="1")
<i>Int1d</i>	PSWG7 (description="PHOTFARRAY129", quantity="1")
<i>Int1d</i>	PSWH8 (description="PHOTFARRAY130", quantity="1")
<i>Int1d</i>	PSWF8 (description="PHOTFARRAY131", quantity="1")
<i>Int1d</i>	PSWG8 (description="PHOTFARRAY132", quantity="1")
<i>Int1d</i>	PSWJ8 (description="PHOTFARRAY133", quantity="1")
<i>Int1d</i>	PSWF9 (description="PHOTFARRAY134", quantity="1")
<i>Int1d</i>	PSWH9 (description="PHOTFARRAY135", quantity="1")
<i>Int1d</i>	PSWG9 (description="PHOTFARRAY136", quantity="1")
<i>Int1d</i>	PSWJ9 (description="PHOTFARRAY137", quantity="1")
<i>Int1d</i>	PSWF10 (description="PHOTFARRAY138", quantity="1")
<i>Int1d</i>	PSWH10 (description="PHOTFARRAY139", quantity="1")
<i>Int1d</i>	PSWG10 (description="PHOTFARRAY140", quantity="1")
<i>Int1d</i>	PSWF11 (description="PHOTFARRAY141", quantity="1")
<i>Int1d</i>	PSWJ10 (description="PHOTFARRAY142", quantity="1")
<i>Int1d</i>	PSWH11 (description="PHOTFARRAY143", quantity="1")
<i>Int1d</i>	PSWG11 (description="PHOTFARRAY144", quantity="1")
<i>Int1d</i>	PLWR1 (description="PHOTFARRAY145", quantity="1")
<i>Int1d</i>	PLWA8 (description="PHOTFARRAY146", quantity="1")
<i>Int1d</i>	PLWA7 (description="PHOTFARRAY147", quantity="1")

<i>Int1d</i>	PLWA6 (description="PHOTFARRAY148", quantity="1")
<i>Int1d</i>	PLWA9 (description="PHOTFARRAY149", quantity="1")
<i>Int1d</i>	PLWC9 (description="PHOTFARRAY150", quantity="1")
<i>Int1d</i>	PLWB8 (description="PHOTFARRAY151", quantity="1")
<i>Int1d</i>	PLWB7 (description="PHOTFARRAY152", quantity="1")
<i>Int1d</i>	PLWC7 (description="PHOTFARRAY153", quantity="1")
<i>Int1d</i>	PLWB5 (description="PHOTFARRAY154", quantity="1")
<i>Int1d</i>	PLWB6 (description="PHOTFARRAY155", quantity="1")
<i>Int1d</i>	PLWA5 (description="PHOTFARRAY156", quantity="1")
<i>Int1d</i>	PLWT1 (description="PHOTFARRAY157", quantity="1")
<i>Int1d</i>	PLWB4 (description="PHOTFARRAY158", quantity="1")
<i>Int1d</i>	PLWC4 (description="PHOTFARRAY159", quantity="1")
<i>Int1d</i>	PLWB3 (description="PHOTFARRAY160", quantity="1")
<i>Int1d</i>	PLWC2 (description="PHOTFARRAY161", quantity="1")
<i>Int1d</i>	PLWB2 (description="PHOTFARRAY162", quantity="1")
<i>Int1d</i>	PLWB1 (description="PHOTFARRAY163", quantity="1")
<i>Int1d</i>	PLWA3 (description="PHOTFARRAY164", quantity="1")
<i>Int1d</i>	PLWA4 (description="PHOTFARRAY165", quantity="1")
<i>Int1d</i>	PLWA1 (description="PHOTFARRAY166", quantity="1")
<i>Int1d</i>	PLWDP1 (description="PHOTFARRAY167", quantity="1")
<i>Int1d</i>	PLWA2 (description="PHOTFARRAY168", quantity="1")
<i>Int1d</i>	PLWE1 (description="PHOTFARRAY169", quantity="1")
<i>Int1d</i>	PLWE2 (description="PHOTFARRAY170", quantity="1")
<i>Int1d</i>	PLWE3 (description="PHOTFARRAY171", quantity="1")
<i>Int1d</i>	PLWE4 (description="PHOTFARRAY172", quantity="1")
<i>Int1d</i>	PLWD1 (description="PHOTFARRAY173", quantity="1")
<i>Int1d</i>	PLWD2 (description="PHOTFARRAY174", quantity="1")
<i>Int1d</i>	PLWD3 (description="PHOTFARRAY175", quantity="1")
<i>Int1d</i>	PLWD4 (description="PHOTFARRAY176", quantity="1")
<i>Int1d</i>	PLWC1 (description="PHOTFARRAY177", quantity="1")
<i>Int1d</i>	PLWC3 (description="PHOTFARRAY178", quantity="1")
<i>Int1d</i>	PLWC5 (description="PHOTFARRAY179", quantity="1")
<i>Int1d</i>	PLWT2 (description="PHOTFARRAY180", quantity="1")
<i>Int1d</i>	PLWE5 (description="PHOTFARRAY181", quantity="1")
<i>Int1d</i>	PLWC6 (description="PHOTFARRAY182", quantity="1")
<i>Int1d</i>	PLWC8 (description="PHOTFARRAY183", quantity="1")
<i>Int1d</i>	PLWD5 (description="PHOTFARRAY184", quantity="1")
<i>Int1d</i>	PLWD6 (description="PHOTFARRAY185", quantity="1")
<i>Int1d</i>	PLWD7 (description="PHOTFARRAY186", quantity="1")
<i>Int1d</i>	PLWD8 (description="PHOTFARRAY187", quantity="1")
<i>Int1d</i>	PLWE7 (description="PHOTFARRAY188", quantity="1")
<i>Int1d</i>	PLWE6 (description="PHOTFARRAY189", quantity="1")

<i>Int1d</i>	PLWE8 (description="PHOTFARRAY190", quantity="1")
<i>Int1d</i>	PLWDP2 (description="PHOTFARRAY191", quantity="1")
<i>Int1d</i>	PLWE9 (description="PHOTFARRAY192", quantity="1")
<i>Int1d</i>	PMWA13 (description="PHOTFARRAY193", quantity="1")
<i>Int1d</i>	PMWT1 (description="PHOTFARRAY194", quantity="1")
<i>Int1d</i>	PMWB12 (description="PHOTFARRAY195", quantity="1")
<i>Int1d</i>	PMWC13 (description="PHOTFARRAY196", quantity="1")
<i>Int1d</i>	PMWA12 (description="PHOTFARRAY197", quantity="1")
<i>Int1d</i>	PMWD12 (description="PHOTFARRAY198", quantity="1")
<i>Int1d</i>	PMWC12 (description="PHOTFARRAY199", quantity="1")
<i>Int1d</i>	PMWB11 (description="PHOTFARRAY200", quantity="1")
<i>Int1d</i>	PMWA11 (description="PHOTFARRAY201", quantity="1")
<i>Int1d</i>	PMWE13 (description="PHOTFARRAY202", quantity="1")
<i>Int1d</i>	PMWD11 (description="PHOTFARRAY203", quantity="1")
<i>Int1d</i>	PMWC11 (description="PHOTFARRAY204", quantity="1")
<i>Int1d</i>	PMWB10 (description="PHOTFARRAY205", quantity="1")
<i>Int1d</i>	PMWA10 (description="PHOTFARRAY206", quantity="1")
<i>Int1d</i>	PMWD10 (description="PHOTFARRAY207", quantity="1")
<i>Int1d</i>	PMWB9 (description="PHOTFARRAY208", quantity="1")
<i>Int1d</i>	PMWC10 (description="PHOTFARRAY209", quantity="1")
<i>Int1d</i>	PMWC9 (description="PHOTFARRAY210", quantity="1")
<i>Int1d</i>	PMWA9 (description="PHOTFARRAY211", quantity="1")
<i>Int1d</i>	PMWB8 (description="PHOTFARRAY212", quantity="1")
<i>Int1d</i>	PMWA8 (description="PHOTFARRAY213", quantity="1")
<i>Int1d</i>	PMWD8 (description="PHOTFARRAY214", quantity="1")
<i>Int1d</i>	PMWC8 (description="PHOTFARRAY215", quantity="1")
<i>Int1d</i>	PMWB7 (description="PHOTFARRAY216", quantity="1")
<i>Int1d</i>	PMWR1 (description="PHOTFARRAY217", quantity="1")
<i>Int1d</i>	PMWG1 (description="PHOTFARRAY218", quantity="1")
<i>Int1d</i>	PMWT2 (description="PHOTFARRAY219", quantity="1")
<i>Int1d</i>	PMWE1 (description="PHOTFARRAY220", quantity="1")
<i>Int1d</i>	PMWD1 (description="PHOTFARRAY221", quantity="1")
<i>Int1d</i>	PMWF1 (description="PHOTFARRAY222", quantity="1")
<i>Int1d</i>	PMWE2 (description="PHOTFARRAY223", quantity="1")
<i>Int1d</i>	PMWG2 (description="PHOTFARRAY224", quantity="1")
<i>Int1d</i>	PMWF2 (description="PHOTFARRAY225", quantity="1")
<i>Int1d</i>	PMWG3 (description="PHOTFARRAY226", quantity="1")
<i>Int1d</i>	PMWE3 (description="PHOTFARRAY227", quantity="1")
<i>Int1d</i>	PMWD3 (description="PHOTFARRAY228", quantity="1")
<i>Int1d</i>	PMWF3 (description="PHOTFARRAY229", quantity="1")
<i>Int1d</i>	PMWG4 (description="PHOTFARRAY230", quantity="1")
<i>Int1d</i>	PMWE4 (description="PHOTFARRAY231", quantity="1")

<i>Int1d</i>	PMWF4 (description="PHOTFARRAY232", quantity="1")
<i>Int1d</i>	PMWE5 (description="PHOTFARRAY233", quantity="1")
<i>Int1d</i>	PMWD5 (description="PHOTFARRAY234", quantity="1")
<i>Int1d</i>	PMWF5 (description="PHOTFARRAY235", quantity="1")
<i>Int1d</i>	PMWG5 (description="PHOTFARRAY236", quantity="1")
<i>Int1d</i>	PMWE6 (description="PHOTFARRAY237", quantity="1")
<i>Int1d</i>	PMWG6 (description="PHOTFARRAY238", quantity="1")
<i>Int1d</i>	PMWF6 (description="PHOTFARRAY239", quantity="1")
<i>Int1d</i>	PMWG7 (description="PHOTFARRAY240", quantity="1")
<i>Int1d</i>	PMWF10 (description="PHOTFARRAY241", quantity="1")
<i>Int1d</i>	PMWE11 (description="PHOTFARRAY242", quantity="1")
<i>Int1d</i>	PMWG11 (description="PHOTFARRAY243", quantity="1")
<i>Int1d</i>	PMWF11 (description="PHOTFARRAY244", quantity="1")
<i>Int1d</i>	PMWE12 (description="PHOTFARRAY245", quantity="1")
<i>Int1d</i>	PMWG12 (description="PHOTFARRAY246", quantity="1")
<i>Int1d</i>	PMWF12 (description="PHOTFARRAY247", quantity="1")
<i>Int1d</i>	PMWG13 (description="PHOTFARRAY248", quantity="1")
<i>Int1d</i>	PMWDP2 (description="PHOTFARRAY249", quantity="1")
<i>Int1d</i>	PMWE7 (description="PHOTFARRAY250", quantity="1")
<i>Int1d</i>	PMWD7 (description="PHOTFARRAY251", quantity="1")
<i>Int1d</i>	PMWF7 (description="PHOTFARRAY252", quantity="1")
<i>Int1d</i>	PMWE8 (description="PHOTFARRAY253", quantity="1")
<i>Int1d</i>	PMWG8 (description="PHOTFARRAY254", quantity="1")
<i>Int1d</i>	PMWF8 (description="PHOTFARRAY255", quantity="1")
<i>Int1d</i>	PMWE9 (description="PHOTFARRAY256", quantity="1")
<i>Int1d</i>	PMWG9 (description="PHOTFARRAY257", quantity="1")
<i>Int1d</i>	PMWD9 (description="PHOTFARRAY258", quantity="1")
<i>Int1d</i>	PMWF9 (description="PHOTFARRAY259", quantity="1")
<i>Int1d</i>	PMWE10 (description="PHOTFARRAY260", quantity="1")
<i>Int1d</i>	PMWG10 (description="PHOTFARRAY261", quantity="1")
<i>Int1d</i>	PMWC4 (description="PHOTFARRAY262", quantity="1")
<i>Int1d</i>	PMWB3 (description="PHOTFARRAY263", quantity="1")
<i>Int1d</i>	PMWC3 (description="PHOTFARRAY264", quantity="1")
<i>Int1d</i>	PMWB2 (description="PHOTFARRAY265", quantity="1")
<i>Int1d</i>	PMWD2 (description="PHOTFARRAY266", quantity="1")
<i>Int1d</i>	PMWA3 (description="PHOTFARRAY267", quantity="1")
<i>Int1d</i>	PMWA2 (description="PHOTFARRAY268", quantity="1")
<i>Int1d</i>	PMWC2 (description="PHOTFARRAY269", quantity="1")
<i>Int1d</i>	PMWB1 (description="PHOTFARRAY270", quantity="1")
<i>Int1d</i>	PMWA1 (description="PHOTFARRAY271", quantity="1")
<i>Int1d</i>	PMWDP1 (description="PHOTFARRAY272", quantity="1")
<i>Int1d</i>	PMWC1 (description="PHOTFARRAY273", quantity="1")

<i>Int1d</i>	PMWA7 (description="PHOTFARRAY274", quantity="1")
<i>Int1d</i>	PMWA6 (description="PHOTFARRAY275", quantity="1")
<i>Int1d</i>	PMWB6 (description="PHOTFARRAY276", quantity="1")
<i>Int1d</i>	PMWC7 (description="PHOTFARRAY277", quantity="1")
<i>Int1d</i>	PMWA5 (description="PHOTFARRAY278", quantity="1")
<i>Int1d</i>	PMWB5 (description="PHOTFARRAY279", quantity="1")
<i>Int1d</i>	PMWC6 (description="PHOTFARRAY280", quantity="1")
<i>Int1d</i>	PMWD6 (description="PHOTFARRAY281", quantity="1")
<i>Int1d</i>	PMWB4 (description="PHOTFARRAY282", quantity="1")
<i>Int1d</i>	PMWC5 (description="PHOTFARRAY283", quantity="1")
<i>Int1d</i>	PMWD4 (description="PHOTFARRAY284", quantity="1")
<i>Int1d</i>	PMWA4 (description="PHOTFARRAY285", quantity="1")
<i>Int1d</i>	PTCP1 (description="PHOTFARRAY286", quantity="1")
<i>Int1d</i>	PTCP2 (description="PHOTFARRAY287", quantity="1")
<i>Int1d</i>	PTCP3 (description="PHOTFARRAY288", quantity="1")
<i>Double1d</i>	corrTime (description="null", quantity="UTC")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="temperature", description="Temperature")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="signal", description="Flux Signal Timelines")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="ra", description="RA timeline")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="dec", description="Dec timeline")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="angVelocity", description="Angular Velocity")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.3.2. SPIRE Product Level 1 - Photometer Scan Product

<i>product (type="PSP", description="Photometer Scan Product")</i>	
<i>Metadata</i>	
<i>StringParameter</i>	telescope (description="Name of telescope")
<i>StringParameter</i>	instrument (description="Instrument attached to this product")

StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
DoubleParameter	biasFreq (description="Bias frequency", quantity="Hz")
StringParameter	elecSide (description="Electronic side", quantity="Hz")
StringParameter	modelName (description="Model name attached to this product", quantity="Hz")
StringParameter	formatVersion (description="Version of product format", quantity="Hz")
StringParameter	missionConfig (description="Mission configuration", quantity="Hz")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")

StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
StringParameter	origin (description="Site that created the product", quantity="arcsec a-1")
StringParameter	type (description="Product Type Identification", quantity="arcsec a-1")
StringParameter	description (description="Name of this product", quantity="arcsec a-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in the engineering conversion", quantity="arcsec a-1")
StringParameter	calVersion (description="Calibration version", quantity="arcsec a-1")
StringParameter	level (description="The level of the product", quantity="arcsec a-1")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec a-1")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec a-1")
StringParameter	signalTable (description="Name of the signal table", quantity="arcsec a-1")
LongParameter	maskDead (description="Mask value for dead channel", quantity="arcsec a-1")
LongParameter	maskMaster (description="Mask value for master bit", quantity="arcsec a-1")
LongParameter	maskNoisy (description="Mask value for noisy channel", quantity="arcsec a-1")
LongParameter	maskSlow (description="Mask value for slow channel", quantity="arcsec a-1")
BooleanParameter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="arcsec a-1")
DoubleParameter	ratioTruncatedPLW (description="Maximum ratio of out-of-range values to total number of values in PLW data", quantity="arcsec a-1")
DoubleParameter	ratioTruncatedPMW (description="Maximum ratio of out-of-range values to total number of values in PMW data", quantity="arcsec a-1")

DoubleParameter	ratioTruncatedPSW (description="Maximum ratio of out-of-range values to total number of values in PSW data", quantity="arcsec a-1")
DoubleParameter	ratioTruncatedPTC (description="Total fraction of out-of-range values for PTC", quantity="arcsec a-1")
LongParameter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="arcsec a-1")
LongParameter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="arcsec a-1")
LongParameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="arcsec a-1")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="arcsec a-1")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="arcsec a-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
BooleanParameter	rcRollApp (description="RC roll correction applied", quantity="ms/min")
DoubleParameter	subkTempDrift (description="Drift measured by the SubK temperature probe", quantity="K")
LongParameter	maskGlitchL1Detected (description="Mask value for first level glitch detected", quantity="K")
LongParameter	maskGlitchL1NotRemoved (description="Mask value for first level glitch detected and not removed", quantity="K")
DoubleParameter	ratioSamplesOutOfCalibrationRangePSW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="K")
LongParameter	numberBelowK3VoltagePSW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="K")
DoubleParameter	ratioSamplesOutOfCalibrationRangePMW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="K")
LongParameter	numberBelowK3VoltagePMW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="K")
DoubleParameter	ratioSamplesOutOfCalibrationRangePLW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="K")
LongParameter	numberBelowK3VoltagePLW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="K")
LongParameter	maskVoltageOol (description="Mask value for voltage out of fitted range", quantity="K")

LongParameter	maskVoltageBelowK3 (description="Mask value for voltage below K3", quantity="K")
LongParameter	maskNoRespData (description="Mask value for voltage out of fitted range and/or below K3", quantity="K")
DateParameter	respControlStamp (description="Control Stamp used to ensure synchronization of Flux Conversion and Temperature Drift correction tasks", quantity="K")
StringParameter	thermistorUsedInCorrectionPLW (description="Identifies which PLW Thermistor was used in correction or if no correction was applied", quantity="K")
StringParameter	thermistorUsedInCorrectionPMW (description="Identifies which PMW Thermistor was used in correction or if no correction was applied", quantity="K")
StringParameter	thermistorUsedInCorrectionPSW (description="Identifies which PSW Thermistor was used in correction or if no correction was applied", quantity="K")
LongParameter	maskNotChoppedToSky (description="Mask value for channel not chopped to sky", quantity="K")
LongParameter	maskTsignalHdv (description="Mask value for thermistor/DP signal deviations are larger than expected", quantity="K")
LongParameter	maskJumpThermistorsDarksSignal (description="Mask value for signal jump in the thermistor/dark timeline", quantity="K")
LongParameter	maskNoThermistorAvailable (description="Mask value for all the available thermistors are affected by either saturation or signal jump", quantity="K")
LongParameter	maskNoDarkChannelAvailable (description="Mask value for all available dark channels in the array are affected by either saturation or signal jump", quantity="K")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="K")
DoubleParameter	plwBiasAmpl (description="PLW bias amplitude", quantity="V")
DoubleParameter	pmwBiasAmpl (description="PMW bias amplitude", quantity="V")
DoubleParameter	pswBiasAmpl (description="PSW bias amplitude", quantity="V")
DoubleParameter	ptcBiasAmpl (description="PTC bias amplitude", quantity="V")
DoubleParameter	plwBiasPhase (description="PLW bias phase", quantity="rad")
DoubleParameter	pmwBiasPhase (description="PMW bias phase", quantity="rad")
DoubleParameter	pswBiasPhase (description="PSW bias phase", quantity="rad")
DoubleParameter	ptcBiasPhase (description="PTC bias phase", quantity="rad")
BooleanParameter	temperatureDriftCorrectionDone (description="Indicates the status of the temperature correction", quantity="rad")
StringParameter	scanSpeed (description="Speed of scan", quantity="rad")
LongParameter	scanLineNum (description="Scan line number", quantity="rad")
BooleanParameter	electricalCrosstalkCorrectionDone (description="Flag set when the electrical crosstalk correction is done", quantity="rad")

DateParameter	startNominalScanLine (description="Start date of the nominal scan line", quantity="rad")
DateParameter	endNominalScanLine (description="End date of the nominal scan line", quantity="rad")
LongParameter	numberBadVoltageOffsetPLW (description="Number of PLW bolometers with bad voltage offset resets", quantity="rad")
LongParameter	numberBadVoltageOffsetPMW (description="Number of PMW bolometers with bad voltage offset resets", quantity="rad")
LongParameter	numberBadVoltageOffsetPSW (description="Number of PSW bolometers with bad voltage offset resets", quantity="rad")
BooleanParameter	coolerBurpCorrected (description="Indicate the status of the cooler burp correction", quantity="rad")
DoubleParameter	kappa (description="Value of standard deviations to use in jump detection algorithm", quantity="rad")
BooleanParameter	fluxConversionDone (description="Indicates nominal termination of FluxConversion Task", quantity="rad")
DoubleParameter	ratioPhotFirstLevelGlitchesPSW (description="Ratio of number of flagged samples over number of data samples in the detectors of the PSW array", quantity="rad")
DoubleParameter	ratioPhotFirstLevelGlitchesPMW (description="Ratio of number of flagged samples over number of data samples in the detectors of the PMW array", quantity="rad")
DoubleParameter	ratioPhotFirstLevelGlitchesPLW (description="Ratio of number of flagged samples over number of data samples in the detectors of the PLW array", quantity="rad")
LongParameter	bsmRangeDuringScan (description="Range of the BSM motion during scan map observations", quantity="rad")
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<i>Int1d</i>	PMWT2 (description="PHOTFARRAY219", quantity="1")
<i>Int1d</i>	PMWE1 (description="PHOTFARRAY220", quantity="1")
<i>Int1d</i>	PMWD1 (description="PHOTFARRAY221", quantity="1")
<i>Int1d</i>	PMWF1 (description="PHOTFARRAY222", quantity="1")
<i>Int1d</i>	PMWE2 (description="PHOTFARRAY223", quantity="1")
<i>Int1d</i>	PMWG2 (description="PHOTFARRAY224", quantity="1")
<i>Int1d</i>	PMWF2 (description="PHOTFARRAY225", quantity="1")

<i>Int1d</i>	PMWG3 (description="PHOTFARRAY226", quantity="1")
<i>Int1d</i>	PMWE3 (description="PHOTFARRAY227", quantity="1")
<i>Int1d</i>	PMWD3 (description="PHOTFARRAY228", quantity="1")
<i>Int1d</i>	PMWF3 (description="PHOTFARRAY229", quantity="1")
<i>Int1d</i>	PMWG4 (description="PHOTFARRAY230", quantity="1")
<i>Int1d</i>	PMWE4 (description="PHOTFARRAY231", quantity="1")
<i>Int1d</i>	PMWF4 (description="PHOTFARRAY232", quantity="1")
<i>Int1d</i>	PMWE5 (description="PHOTFARRAY233", quantity="1")
<i>Int1d</i>	PMWD5 (description="PHOTFARRAY234", quantity="1")
<i>Int1d</i>	PMWF5 (description="PHOTFARRAY235", quantity="1")
<i>Int1d</i>	PMWG5 (description="PHOTFARRAY236", quantity="1")
<i>Int1d</i>	PMWE6 (description="PHOTFARRAY237", quantity="1")
<i>Int1d</i>	PMWG6 (description="PHOTFARRAY238", quantity="1")
<i>Int1d</i>	PMWF6 (description="PHOTFARRAY239", quantity="1")
<i>Int1d</i>	PMWG7 (description="PHOTFARRAY240", quantity="1")
<i>Int1d</i>	PMWF10 (description="PHOTFARRAY241", quantity="1")
<i>Int1d</i>	PMWE11 (description="PHOTFARRAY242", quantity="1")
<i>Int1d</i>	PMWG11 (description="PHOTFARRAY243", quantity="1")
<i>Int1d</i>	PMWF11 (description="PHOTFARRAY244", quantity="1")
<i>Int1d</i>	PMWE12 (description="PHOTFARRAY245", quantity="1")
<i>Int1d</i>	PMWG12 (description="PHOTFARRAY246", quantity="1")
<i>Int1d</i>	PMWF12 (description="PHOTFARRAY247", quantity="1")
<i>Int1d</i>	PMWG13 (description="PHOTFARRAY248", quantity="1")
<i>Int1d</i>	PMWDP2 (description="PHOTFARRAY249", quantity="1")
<i>Int1d</i>	PMWE7 (description="PHOTFARRAY250", quantity="1")
<i>Int1d</i>	PMWD7 (description="PHOTFARRAY251", quantity="1")
<i>Int1d</i>	PMWF7 (description="PHOTFARRAY252", quantity="1")
<i>Int1d</i>	PMWE8 (description="PHOTFARRAY253", quantity="1")
<i>Int1d</i>	PMWG8 (description="PHOTFARRAY254", quantity="1")
<i>Int1d</i>	PMWF8 (description="PHOTFARRAY255", quantity="1")
<i>Int1d</i>	PMWE9 (description="PHOTFARRAY256", quantity="1")
<i>Int1d</i>	PMWG9 (description="PHOTFARRAY257", quantity="1")
<i>Int1d</i>	PMWD9 (description="PHOTFARRAY258", quantity="1")
<i>Int1d</i>	PMWF9 (description="PHOTFARRAY259", quantity="1")
<i>Int1d</i>	PMWE10 (description="PHOTFARRAY260", quantity="1")
<i>Int1d</i>	PMWG10 (description="PHOTFARRAY261", quantity="1")
<i>Int1d</i>	PMWC4 (description="PHOTFARRAY262", quantity="1")
<i>Int1d</i>	PMWB3 (description="PHOTFARRAY263", quantity="1")
<i>Int1d</i>	PMWC3 (description="PHOTFARRAY264", quantity="1")
<i>Int1d</i>	PMWB2 (description="PHOTFARRAY265", quantity="1")
<i>Int1d</i>	PMWD2 (description="PHOTFARRAY266", quantity="1")
<i>Int1d</i>	PMWA3 (description="PHOTFARRAY267", quantity="1")

<i>Int1d</i>	PMWA2 (description="PHOTFARRAY268", quantity="1")
<i>Int1d</i>	PMWC2 (description="PHOTFARRAY269", quantity="1")
<i>Int1d</i>	PMWB1 (description="PHOTFARRAY270", quantity="1")
<i>Int1d</i>	PMWA1 (description="PHOTFARRAY271", quantity="1")
<i>Int1d</i>	PMWDP1 (description="PHOTFARRAY272", quantity="1")
<i>Int1d</i>	PMWC1 (description="PHOTFARRAY273", quantity="1")
<i>Int1d</i>	PMWA7 (description="PHOTFARRAY274", quantity="1")
<i>Int1d</i>	PMWA6 (description="PHOTFARRAY275", quantity="1")
<i>Int1d</i>	PMWB6 (description="PHOTFARRAY276", quantity="1")
<i>Int1d</i>	PMWC7 (description="PHOTFARRAY277", quantity="1")
<i>Int1d</i>	PMWA5 (description="PHOTFARRAY278", quantity="1")
<i>Int1d</i>	PMWB5 (description="PHOTFARRAY279", quantity="1")
<i>Int1d</i>	PMWC6 (description="PHOTFARRAY280", quantity="1")
<i>Int1d</i>	PMWD6 (description="PHOTFARRAY281", quantity="1")
<i>Int1d</i>	PMWB4 (description="PHOTFARRAY282", quantity="1")
<i>Int1d</i>	PMWC5 (description="PHOTFARRAY283", quantity="1")
<i>Int1d</i>	PMWD4 (description="PHOTFARRAY284", quantity="1")
<i>Int1d</i>	PMWA4 (description="PHOTFARRAY285", quantity="1")
<i>Int1d</i>	PTCP1 (description="PHOTFARRAY286", quantity="1")
<i>Int1d</i>	PTCP2 (description="PHOTFARRAY287", quantity="1")
<i>Int1d</i>	PTCP3 (description="PHOTFARRAY288", quantity="1")
<i>Double1d</i>	corrTime (description="null", quantity="UTC")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="temperature", description="Temperature")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="signal", description="Flux Signal Timelines")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="ra", description="RA timeline")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="dec", description="Dec timeline")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="angVelocity", description="Angular Velocity")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.3.3. SPIRE Product Level 1 - Photometer Scan Product

<i>product (type="PSP", description="Photometer Scan Product")</i>	
Meta- data	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
DoubleParameter	biasFreq (description="Bias frequency", quantity="Hz")

StringParameter	elecSide (description="Electronic side", quantity="Hz")
StringParameter	modelName (description="Model name attached to this product", quantity="Hz")
StringParameter	formatVersion (description="Version of product format", quantity="Hz")
StringParameter	missionConfig (description="Mission configuration", quantity="Hz")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	type (description="Product Type Identification", quantity="arcsec/year")
StringParameter	description (description="Name of this product", quantity="arcsec/year")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="arcsec/year")
StringParameter	calVersion (description="Calibration version", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec/year")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec/year")
StringParameter	signalTable (description="Name of the signal table", quantity="arcsec/year")
LongParameter	maskDead (description="Mask value for dead channel", quantity="arcsec/year")
LongParameter	maskMaster (description="Mask value for master bit", quantity="arcsec/year")

LongParameter	maskNoisy (description="Mask value for noisy channel", quantity="arcsec/year")
LongParameter	maskSlow (description="Mask value for slow channel", quantity="arcsec/year")
BooleanParameter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="arcsec/year")
DoubleParameter	ratioTruncatedPLW (description="Maximum ratio of out of range values to total number of values in PLW data.", quantity="arcsec/year")
DoubleParameter	ratioTruncatedPMW (description="Maximum ratio of out of range values to total number of values in PMW data.", quantity="arcsec/year")
DoubleParameter	ratioTruncatedPSW (description="Maximum ratio of out of range values to total number of values in PSW data.", quantity="arcsec/year")
DoubleParameter	ratioTruncatedPTC (description="Total fraction of out of range values for PTC", quantity="arcsec/year")
LongParameter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="arcsec/year")
LongParameter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="arcsec/year")
LongParameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="arcsec/year")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="arcsec/year")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="arcsec/year")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
BooleanParameter	rcRollApp (description="RC roll correction applied", quantity="ms/min")
DoubleParameter	subkTempDrift (description="Drift measured by the SubK temperature probe", quantity="K")
LongParameter	maskGlitchL1Detected (description="Mask value for first level glitch detected", quantity="K")
LongParameter	maskGlitchL1NotRemoved (description="Mask value for first level glitch detected and not removed", quantity="K")
DoubleParameter	ratioSamplesOutOfCalibrationRangePSW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="K")
LongParameter	numberBelowK3VoltagePSW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="K")
DoubleParameter	ratioSamplesOutOfCalibrationRangePMW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="K")

LongParameter	numberBelowK3VoltagePMW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="K")
DoubleParameter	ratioSamplesOutOfCalibrationRangePLW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="K")
LongParameter	numberBelowK3VoltagePLW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="K")
LongParameter	maskVoltageOol (description="Mask value for voltage out of fitted range", quantity="K")
LongParameter	maskVoltageBelowK3 (description="Mask value for voltage below K3", quantity="K")
LongParameter	maskNoRespData (description="Mask value for voltage out of fitted range and/or below K3", quantity="K")
DateParameter	respControlStamp (description="Control Stamp used to ensure synchronization of Flux Conversion and Temperature Drift correction tasks", quantity="K")
StringParameter	thermistorUsedInCorrectionPLW (description="Identifies Which PLW Thermistor Was Used in Correction Or If No Correction Was Done", quantity="K")
StringParameter	thermistorUsedInCorrectionPMW (description="Identifies Which PMW Thermistor Was Used in Correction Or If No Correction Was Done.", quantity="K")
StringParameter	thermistorUsedInCorrectionPSW (description="Identifies Which PSW Thermistor Was Used in Correction Or If No Correction Was Done.", quantity="K")
LongParameter	maskNotChoppedToSky (description="Mask value for channel not chopped to sky", quantity="K")
LongParameter	maskTsignalHdv (description="Mask value for thermistor/DP signal deviations are larger than expected", quantity="K")
LongParameter	maskJumpThermistorsDarksSignal (description="Mask value for signal jump in the thermistor/dark timeline", quantity="K")
LongParameter	maskNoThermistorAvailable (description="Mask value for all the available thermistors are affected by either saturation or signal jump", quantity="K")
LongParameter	maskNoDarkChannelAvailable (description="Mask value for all available dark channels in the array are affected by either saturation or signal jump", quantity="K")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="K")
DoubleParameter	plwBiasAmpl (description="PLW bias amplitude", quantity="V")
DoubleParameter	pmwBiasAmpl (description="PMW bias amplitude", quantity="V")
DoubleParameter	pswBiasAmpl (description="PSW bias amplitude", quantity="V")
DoubleParameter	ptcBiasAmpl (description="PTC bias amplitude", quantity="V")
DoubleParameter	plwBiasPhase (description="PLW bias phase", quantity="rad")
DoubleParameter	pmwBiasPhase (description="PMW bias phase", quantity="rad")
DoubleParameter	pswBiasPhase (description="PSW bias phase", quantity="rad")

DoubleParameter	ptcBiasPhase (description="PTC bias phase", quantity="rad")
BooleanParameter	temperatureDriftCorrectionDone (description="Indicate the status of the temperature correction.", quantity="rad")
StringParameter	scanSpeed (description="Speed of scan", quantity="rad")
LongParameter	scanLineNum (description="Scan line number", quantity="rad")
BooleanParameter	electricalCrosstalkCorrectionDone (description="Flag set when the electrical crosstalk correction is done", quantity="rad")
DateParameter	startNominalScanLine (description="Start date of the nominal scan line", quantity="rad")
DateParameter	endNominalScanLine (description="End date of the nominal scan line", quantity="rad")
LongParameter	numberBadVoltageOffsetPLW (description="Number of PLW bolometers with bad voltage offset resets", quantity="rad")
LongParameter	numberBadVoltageOffsetPMW (description="Number of PMW bolometers with bad voltage offset resets", quantity="rad")
LongParameter	numberBadVoltageOffsetPSW (description="Number of PSW bolometers with bad voltage offset resets", quantity="rad")
BooleanParameter	coolerBurpDetected (description="Indicates a cooler burp", quantity="rad")
BooleanParameter	coolerBurpCorrected (description="Indicate the status of the cooler burp correction.", quantity="rad")
DoubleParameter	kappa (description="Value of standard deviations to use in jump detection algorithm", quantity="rad")
BooleanParameter	fluxConversionDone (description="Indicates nominal termination of FluxConversion Task", quantity="rad")
DoubleParameter	ratioPhotFirstLevelGlitchesPSW (description="Ratio of number of flagged samples over number of data samples in the detectors of the PSW array", quantity="rad")
DoubleParameter	ratioPhotFirstLevelGlitchesPMW (description="Ratio of number of flagged samples over number of data samples in the detectors of the PMW array", quantity="rad")
DoubleParameter	ratioPhotFirstLevelGlitchesPLW (description="Ratio of number of flagged samples over number of data samples in the detectors of the PLW array", quantity="rad")
LongParameter	bsmRangeDuringScan (description="Range of the BSM motion during scan map observations", quantity="rad")
Columns	
table dataset	(name="mask", description="Mask timelines")
Metadata	
Columns	
DoubleId	sampleTime (description="Sample time", quantity="TAI")
IntId	PSWR1 (description="PHOTFARRAY001", quantity="1")
IntId	PSWD16 (description="PHOTFARRAY002", quantity="1")
IntId	PSWT1 (description="PHOTFARRAY003", quantity="1")
IntId	PSWB16 (description="PHOTFARRAY004", quantity="1")
IntId	PSWC15 (description="PHOTFARRAY005", quantity="1")

<i>IntId</i>	PSWA15 (description="PHOTFARRAY006", quantity="1")
<i>IntId</i>	PSWD15 (description="PHOTFARRAY007", quantity="1")
<i>IntId</i>	PSWB15 (description="PHOTFARRAY008", quantity="1")
<i>IntId</i>	PSWC14 (description="PHOTFARRAY009", quantity="1")
<i>IntId</i>	PSWD14 (description="PHOTFARRAY010", quantity="1")
<i>IntId</i>	PSWA14 (description="PHOTFARRAY011", quantity="1")
<i>IntId</i>	PSWA13 (description="PHOTFARRAY012", quantity="1")
<i>IntId</i>	PSWB14 (description="PHOTFARRAY013", quantity="1")
<i>IntId</i>	PSWC13 (description="PHOTFARRAY014", quantity="1")
<i>IntId</i>	PSWB13 (description="PHOTFARRAY015", quantity="1")
<i>IntId</i>	PSWD13 (description="PHOTFARRAY016", quantity="1")
<i>IntId</i>	PSWA12 (description="PHOTFARRAY017", quantity="1")
<i>IntId</i>	PSWC12 (description="PHOTFARRAY018", quantity="1")
<i>IntId</i>	PSWD12 (description="PHOTFARRAY019", quantity="1")
<i>IntId</i>	PSWB12 (description="PHOTFARRAY020", quantity="1")
<i>IntId</i>	PSWE11 (description="PHOTFARRAY021", quantity="1")
<i>IntId</i>	PSWA11 (description="PHOTFARRAY022", quantity="1")
<i>IntId</i>	PSWC11 (description="PHOTFARRAY023", quantity="1")
<i>IntId</i>	PSWB11 (description="PHOTFARRAY024", quantity="1")
<i>IntId</i>	PSWE1 (description="PHOTFARRAY025", quantity="1")
<i>IntId</i>	PSWF1 (description="PHOTFARRAY026", quantity="1")
<i>IntId</i>	PSWT2 (description="PHOTFARRAY027", quantity="1")
<i>IntId</i>	PSWH1 (description="PHOTFARRAY028", quantity="1")
<i>IntId</i>	PSWG1 (description="PHOTFARRAY029", quantity="1")
<i>IntId</i>	PSWJ1 (description="PHOTFARRAY030", quantity="1")
<i>IntId</i>	PSWH2 (description="PHOTFARRAY031", quantity="1")
<i>IntId</i>	PSWF2 (description="PHOTFARRAY032", quantity="1")
<i>IntId</i>	PSWJ2 (description="PHOTFARRAY033", quantity="1")
<i>IntId</i>	PSWG2 (description="PHOTFARRAY034", quantity="1")
<i>IntId</i>	PSWH3 (description="PHOTFARRAY035", quantity="1")
<i>IntId</i>	PSWJ3 (description="PHOTFARRAY036", quantity="1")
<i>IntId</i>	PSWE2 (description="PHOTFARRAY037", quantity="1")
<i>IntId</i>	PSWF3 (description="PHOTFARRAY038", quantity="1")
<i>IntId</i>	PSWG3 (description="PHOTFARRAY039", quantity="1")
<i>IntId</i>	PSWH4 (description="PHOTFARRAY040", quantity="1")
<i>IntId</i>	PSWJ4 (description="PHOTFARRAY041", quantity="1")
<i>IntId</i>	PSWE3 (description="PHOTFARRAY042", quantity="1")
<i>IntId</i>	PSWF4 (description="PHOTFARRAY043", quantity="1")
<i>IntId</i>	PSWG4 (description="PHOTFARRAY044", quantity="1")
<i>IntId</i>	PSWH5 (description="PHOTFARRAY045", quantity="1")
<i>IntId</i>	PSWE4 (description="PHOTFARRAY046", quantity="1")
<i>IntId</i>	PSWJ5 (description="PHOTFARRAY047", quantity="1")

<i>Int1d</i>	PSWF5 (description="PHOTFARRAY048", quantity="1")
<i>Int1d</i>	PSWD6 (description="PHOTFARRAY049", quantity="1")
<i>Int1d</i>	PSWB6 (description="PHOTFARRAY050", quantity="1")
<i>Int1d</i>	PSWC5 (description="PHOTFARRAY051", quantity="1")
<i>Int1d</i>	PSWA5 (description="PHOTFARRAY052", quantity="1")
<i>Int1d</i>	PSWE5 (description="PHOTFARRAY053", quantity="1")
<i>Int1d</i>	PSWB5 (description="PHOTFARRAY054", quantity="1")
<i>Int1d</i>	PSWD5 (description="PHOTFARRAY055", quantity="1")
<i>Int1d</i>	PSWC4 (description="PHOTFARRAY056", quantity="1")
<i>Int1d</i>	PSWA4 (description="PHOTFARRAY057", quantity="1")
<i>Int1d</i>	PSWD4 (description="PHOTFARRAY058", quantity="1")
<i>Int1d</i>	PSWB4 (description="PHOTFARRAY059", quantity="1")
<i>Int1d</i>	PSWC3 (description="PHOTFARRAY060", quantity="1")
<i>Int1d</i>	PSWB3 (description="PHOTFARRAY061", quantity="1")
<i>Int1d</i>	PSWA3 (description="PHOTFARRAY062", quantity="1")
<i>Int1d</i>	PSWA2 (description="PHOTFARRAY063", quantity="1")
<i>Int1d</i>	PSWD3 (description="PHOTFARRAY064", quantity="1")
<i>Int1d</i>	PSWC2 (description="PHOTFARRAY065", quantity="1")
<i>Int1d</i>	PSWB2 (description="PHOTFARRAY066", quantity="1")
<i>Int1d</i>	PSWD2 (description="PHOTFARRAY067", quantity="1")
<i>Int1d</i>	PSWA1 (description="PHOTFARRAY068", quantity="1")
<i>Int1d</i>	PSWC1 (description="PHOTFARRAY069", quantity="1")
<i>Int1d</i>	PSWB1 (description="PHOTFARRAY070", quantity="1")
<i>Int1d</i>	PSWDP1 (description="PHOTFARRAY071", quantity="1")
<i>Int1d</i>	PSWD1 (description="PHOTFARRAY072", quantity="1")
<i>Int1d</i>	PSWF12 (description="PHOTFARRAY073", quantity="1")
<i>Int1d</i>	PSWJ11 (description="PHOTFARRAY074", quantity="1")
<i>Int1d</i>	PSWE12 (description="PHOTFARRAY075", quantity="1")
<i>Int1d</i>	PSWH12 (description="PHOTFARRAY076", quantity="1")
<i>Int1d</i>	PSWG12 (description="PHOTFARRAY077", quantity="1")
<i>Int1d</i>	PSWF13 (description="PHOTFARRAY078", quantity="1")
<i>Int1d</i>	PSWE13 (description="PHOTFARRAY079", quantity="1")
<i>Int1d</i>	PSWJ12 (description="PHOTFARRAY080", quantity="1")
<i>Int1d</i>	PSWH13 (description="PHOTFARRAY081", quantity="1")
<i>Int1d</i>	PSWG13 (description="PHOTFARRAY082", quantity="1")
<i>Int1d</i>	PSWF14 (description="PHOTFARRAY083", quantity="1")
<i>Int1d</i>	PSWE14 (description="PHOTFARRAY084", quantity="1")
<i>Int1d</i>	PSWJ13 (description="PHOTFARRAY085", quantity="1")
<i>Int1d</i>	PSWH14 (description="PHOTFARRAY086", quantity="1")
<i>Int1d</i>	PSWG14 (description="PHOTFARRAY087", quantity="1")
<i>Int1d</i>	PSWJ14 (description="PHOTFARRAY088", quantity="1")
<i>Int1d</i>	PSWF15 (description="PHOTFARRAY089", quantity="1")

<i>Int1d</i>	PSWH15 (description="PHOTFARRAY090", quantity="1")
<i>Int1d</i>	PSWJ15 (description="PHOTFARRAY091", quantity="1")
<i>Int1d</i>	PSWG15 (description="PHOTFARRAY092", quantity="1")
<i>Int1d</i>	PSWH16 (description="PHOTFARRAY093", quantity="1")
<i>Int1d</i>	PSWDP2 (description="PHOTFARRAY094", quantity="1")
<i>Int1d</i>	PSWF16 (description="PHOTFARRAY095", quantity="1")
<i>Int1d</i>	PSWE15 (description="PHOTFARRAY096", quantity="1")
<i>Int1d</i>	PSWD11 (description="PHOTFARRAY097", quantity="1")
<i>Int1d</i>	PSWA10 (description="PHOTFARRAY098", quantity="1")
<i>Int1d</i>	PSWE10 (description="PHOTFARRAY099", quantity="1")
<i>Int1d</i>	PSWC10 (description="PHOTFARRAY100", quantity="1")
<i>Int1d</i>	PSWB10 (description="PHOTFARRAY101", quantity="1")
<i>Int1d</i>	PSWD10 (description="PHOTFARRAY102", quantity="1")
<i>Int1d</i>	PSWA9 (description="PHOTFARRAY103", quantity="1")
<i>Int1d</i>	PSWE9 (description="PHOTFARRAY104", quantity="1")
<i>Int1d</i>	PSWC9 (description="PHOTFARRAY105", quantity="1")
<i>Int1d</i>	PSWB9 (description="PHOTFARRAY106", quantity="1")
<i>Int1d</i>	PSWD9 (description="PHOTFARRAY107", quantity="1")
<i>Int1d</i>	PSWA8 (description="PHOTFARRAY108", quantity="1")
<i>Int1d</i>	PSWC8 (description="PHOTFARRAY109", quantity="1")
<i>Int1d</i>	PSWE8 (description="PHOTFARRAY110", quantity="1")
<i>Int1d</i>	PSWD8 (description="PHOTFARRAY111", quantity="1")
<i>Int1d</i>	PSWB8 (description="PHOTFARRAY112", quantity="1")
<i>Int1d</i>	PSWC7 (description="PHOTFARRAY113", quantity="1")
<i>Int1d</i>	PSWE7 (description="PHOTFARRAY114", quantity="1")
<i>Int1d</i>	PSWA7 (description="PHOTFARRAY115", quantity="1")
<i>Int1d</i>	PSWD7 (description="PHOTFARRAY116", quantity="1")
<i>Int1d</i>	PSWB7 (description="PHOTFARRAY117", quantity="1")
<i>Int1d</i>	PSWC6 (description="PHOTFARRAY118", quantity="1")
<i>Int1d</i>	PSWE6 (description="PHOTFARRAY119", quantity="1")
<i>Int1d</i>	PSWA6 (description="PHOTFARRAY120", quantity="1")
<i>Int1d</i>	PSWG5 (description="PHOTFARRAY121", quantity="1")
<i>Int1d</i>	PSWH6 (description="PHOTFARRAY122", quantity="1")
<i>Int1d</i>	PSWJ6 (description="PHOTFARRAY123", quantity="1")
<i>Int1d</i>	PSWF6 (description="PHOTFARRAY124", quantity="1")
<i>Int1d</i>	PSWG6 (description="PHOTFARRAY125", quantity="1")
<i>Int1d</i>	PSWH7 (description="PHOTFARRAY126", quantity="1")
<i>Int1d</i>	PSWF7 (description="PHOTFARRAY127", quantity="1")
<i>Int1d</i>	PSWJ7 (description="PHOTFARRAY128", quantity="1")
<i>Int1d</i>	PSWG7 (description="PHOTFARRAY129", quantity="1")
<i>Int1d</i>	PSWH8 (description="PHOTFARRAY130", quantity="1")
<i>Int1d</i>	PSWF8 (description="PHOTFARRAY131", quantity="1")

<i>Int1d</i>	PSWG8 (description="PHOTFARRAY132", quantity="1")
<i>Int1d</i>	PSWJ8 (description="PHOTFARRAY133", quantity="1")
<i>Int1d</i>	PSWF9 (description="PHOTFARRAY134", quantity="1")
<i>Int1d</i>	PSWH9 (description="PHOTFARRAY135", quantity="1")
<i>Int1d</i>	PSWG9 (description="PHOTFARRAY136", quantity="1")
<i>Int1d</i>	PSWJ9 (description="PHOTFARRAY137", quantity="1")
<i>Int1d</i>	PSWF10 (description="PHOTFARRAY138", quantity="1")
<i>Int1d</i>	PSWH10 (description="PHOTFARRAY139", quantity="1")
<i>Int1d</i>	PSWG10 (description="PHOTFARRAY140", quantity="1")
<i>Int1d</i>	PSWF11 (description="PHOTFARRAY141", quantity="1")
<i>Int1d</i>	PSWJ10 (description="PHOTFARRAY142", quantity="1")
<i>Int1d</i>	PSWH11 (description="PHOTFARRAY143", quantity="1")
<i>Int1d</i>	PSWG11 (description="PHOTFARRAY144", quantity="1")
<i>Int1d</i>	PLWR1 (description="PHOTFARRAY145", quantity="1")
<i>Int1d</i>	PLWA8 (description="PHOTFARRAY146", quantity="1")
<i>Int1d</i>	PLWA7 (description="PHOTFARRAY147", quantity="1")
<i>Int1d</i>	PLWA6 (description="PHOTFARRAY148", quantity="1")
<i>Int1d</i>	PLWA9 (description="PHOTFARRAY149", quantity="1")
<i>Int1d</i>	PLWC9 (description="PHOTFARRAY150", quantity="1")
<i>Int1d</i>	PLWB8 (description="PHOTFARRAY151", quantity="1")
<i>Int1d</i>	PLWB7 (description="PHOTFARRAY152", quantity="1")
<i>Int1d</i>	PLWC7 (description="PHOTFARRAY153", quantity="1")
<i>Int1d</i>	PLWB5 (description="PHOTFARRAY154", quantity="1")
<i>Int1d</i>	PLWB6 (description="PHOTFARRAY155", quantity="1")
<i>Int1d</i>	PLWA5 (description="PHOTFARRAY156", quantity="1")
<i>Int1d</i>	PLWT1 (description="PHOTFARRAY157", quantity="1")
<i>Int1d</i>	PLWB4 (description="PHOTFARRAY158", quantity="1")
<i>Int1d</i>	PLWC4 (description="PHOTFARRAY159", quantity="1")
<i>Int1d</i>	PLWB3 (description="PHOTFARRAY160", quantity="1")
<i>Int1d</i>	PLWC2 (description="PHOTFARRAY161", quantity="1")
<i>Int1d</i>	PLWB2 (description="PHOTFARRAY162", quantity="1")
<i>Int1d</i>	PLWB1 (description="PHOTFARRAY163", quantity="1")
<i>Int1d</i>	PLWA3 (description="PHOTFARRAY164", quantity="1")
<i>Int1d</i>	PLWA4 (description="PHOTFARRAY165", quantity="1")
<i>Int1d</i>	PLWA1 (description="PHOTFARRAY166", quantity="1")
<i>Int1d</i>	PLWDP1 (description="PHOTFARRAY167", quantity="1")
<i>Int1d</i>	PLWA2 (description="PHOTFARRAY168", quantity="1")
<i>Int1d</i>	PLWE1 (description="PHOTFARRAY169", quantity="1")
<i>Int1d</i>	PLWE2 (description="PHOTFARRAY170", quantity="1")
<i>Int1d</i>	PLWE3 (description="PHOTFARRAY171", quantity="1")
<i>Int1d</i>	PLWE4 (description="PHOTFARRAY172", quantity="1")
<i>Int1d</i>	PLWD1 (description="PHOTFARRAY173", quantity="1")

<i>Int1d</i>	PLWD2 (description="PHOTFARRAY174", quantity="1")
<i>Int1d</i>	PLWD3 (description="PHOTFARRAY175", quantity="1")
<i>Int1d</i>	PLWD4 (description="PHOTFARRAY176", quantity="1")
<i>Int1d</i>	PLWC1 (description="PHOTFARRAY177", quantity="1")
<i>Int1d</i>	PLWC3 (description="PHOTFARRAY178", quantity="1")
<i>Int1d</i>	PLWC5 (description="PHOTFARRAY179", quantity="1")
<i>Int1d</i>	PLWT2 (description="PHOTFARRAY180", quantity="1")
<i>Int1d</i>	PLWE5 (description="PHOTFARRAY181", quantity="1")
<i>Int1d</i>	PLWC6 (description="PHOTFARRAY182", quantity="1")
<i>Int1d</i>	PLWC8 (description="PHOTFARRAY183", quantity="1")
<i>Int1d</i>	PLWD5 (description="PHOTFARRAY184", quantity="1")
<i>Int1d</i>	PLWD6 (description="PHOTFARRAY185", quantity="1")
<i>Int1d</i>	PLWD7 (description="PHOTFARRAY186", quantity="1")
<i>Int1d</i>	PLWD8 (description="PHOTFARRAY187", quantity="1")
<i>Int1d</i>	PLWE7 (description="PHOTFARRAY188", quantity="1")
<i>Int1d</i>	PLWE6 (description="PHOTFARRAY189", quantity="1")
<i>Int1d</i>	PLWE8 (description="PHOTFARRAY190", quantity="1")
<i>Int1d</i>	PLWDP2 (description="PHOTFARRAY191", quantity="1")
<i>Int1d</i>	PLWE9 (description="PHOTFARRAY192", quantity="1")
<i>Int1d</i>	PMWA13 (description="PHOTFARRAY193", quantity="1")
<i>Int1d</i>	PMWT1 (description="PHOTFARRAY194", quantity="1")
<i>Int1d</i>	PMWB12 (description="PHOTFARRAY195", quantity="1")
<i>Int1d</i>	PMWC13 (description="PHOTFARRAY196", quantity="1")
<i>Int1d</i>	PMWA12 (description="PHOTFARRAY197", quantity="1")
<i>Int1d</i>	PMWD12 (description="PHOTFARRAY198", quantity="1")
<i>Int1d</i>	PMWC12 (description="PHOTFARRAY199", quantity="1")
<i>Int1d</i>	PMWB11 (description="PHOTFARRAY200", quantity="1")
<i>Int1d</i>	PMWA11 (description="PHOTFARRAY201", quantity="1")
<i>Int1d</i>	PMWE13 (description="PHOTFARRAY202", quantity="1")
<i>Int1d</i>	PMWD11 (description="PHOTFARRAY203", quantity="1")
<i>Int1d</i>	PMWC11 (description="PHOTFARRAY204", quantity="1")
<i>Int1d</i>	PMWB10 (description="PHOTFARRAY205", quantity="1")
<i>Int1d</i>	PMWA10 (description="PHOTFARRAY206", quantity="1")
<i>Int1d</i>	PMWD10 (description="PHOTFARRAY207", quantity="1")
<i>Int1d</i>	PMWB9 (description="PHOTFARRAY208", quantity="1")
<i>Int1d</i>	PMWC10 (description="PHOTFARRAY209", quantity="1")
<i>Int1d</i>	PMWC9 (description="PHOTFARRAY210", quantity="1")
<i>Int1d</i>	PMWA9 (description="PHOTFARRAY211", quantity="1")
<i>Int1d</i>	PMWB8 (description="PHOTFARRAY212", quantity="1")
<i>Int1d</i>	PMWA8 (description="PHOTFARRAY213", quantity="1")
<i>Int1d</i>	PMWD8 (description="PHOTFARRAY214", quantity="1")
<i>Int1d</i>	PMWC8 (description="PHOTFARRAY215", quantity="1")

<i>Int1d</i>	PMWB7 (description="PHOTFARRAY216", quantity="1")
<i>Int1d</i>	PMWR1 (description="PHOTFARRAY217", quantity="1")
<i>Int1d</i>	PMWG1 (description="PHOTFARRAY218", quantity="1")
<i>Int1d</i>	PMWT2 (description="PHOTFARRAY219", quantity="1")
<i>Int1d</i>	PMWE1 (description="PHOTFARRAY220", quantity="1")
<i>Int1d</i>	PMWD1 (description="PHOTFARRAY221", quantity="1")
<i>Int1d</i>	PMWF1 (description="PHOTFARRAY222", quantity="1")
<i>Int1d</i>	PMWE2 (description="PHOTFARRAY223", quantity="1")
<i>Int1d</i>	PMWG2 (description="PHOTFARRAY224", quantity="1")
<i>Int1d</i>	PMWF2 (description="PHOTFARRAY225", quantity="1")
<i>Int1d</i>	PMWG3 (description="PHOTFARRAY226", quantity="1")
<i>Int1d</i>	PMWE3 (description="PHOTFARRAY227", quantity="1")
<i>Int1d</i>	PMWD3 (description="PHOTFARRAY228", quantity="1")
<i>Int1d</i>	PMWF3 (description="PHOTFARRAY229", quantity="1")
<i>Int1d</i>	PMWG4 (description="PHOTFARRAY230", quantity="1")
<i>Int1d</i>	PMWE4 (description="PHOTFARRAY231", quantity="1")
<i>Int1d</i>	PMWF4 (description="PHOTFARRAY232", quantity="1")
<i>Int1d</i>	PMWE5 (description="PHOTFARRAY233", quantity="1")
<i>Int1d</i>	PMWD5 (description="PHOTFARRAY234", quantity="1")
<i>Int1d</i>	PMWF5 (description="PHOTFARRAY235", quantity="1")
<i>Int1d</i>	PMWG5 (description="PHOTFARRAY236", quantity="1")
<i>Int1d</i>	PMWE6 (description="PHOTFARRAY237", quantity="1")
<i>Int1d</i>	PMWG6 (description="PHOTFARRAY238", quantity="1")
<i>Int1d</i>	PMWF6 (description="PHOTFARRAY239", quantity="1")
<i>Int1d</i>	PMWG7 (description="PHOTFARRAY240", quantity="1")
<i>Int1d</i>	PMWF10 (description="PHOTFARRAY241", quantity="1")
<i>Int1d</i>	PMWE11 (description="PHOTFARRAY242", quantity="1")
<i>Int1d</i>	PMWG11 (description="PHOTFARRAY243", quantity="1")
<i>Int1d</i>	PMWF11 (description="PHOTFARRAY244", quantity="1")
<i>Int1d</i>	PMWE12 (description="PHOTFARRAY245", quantity="1")
<i>Int1d</i>	PMWG12 (description="PHOTFARRAY246", quantity="1")
<i>Int1d</i>	PMWF12 (description="PHOTFARRAY247", quantity="1")
<i>Int1d</i>	PMWG13 (description="PHOTFARRAY248", quantity="1")
<i>Int1d</i>	PMWDP2 (description="PHOTFARRAY249", quantity="1")
<i>Int1d</i>	PMWE7 (description="PHOTFARRAY250", quantity="1")
<i>Int1d</i>	PMWD7 (description="PHOTFARRAY251", quantity="1")
<i>Int1d</i>	PMWF7 (description="PHOTFARRAY252", quantity="1")
<i>Int1d</i>	PMWE8 (description="PHOTFARRAY253", quantity="1")
<i>Int1d</i>	PMWG8 (description="PHOTFARRAY254", quantity="1")
<i>Int1d</i>	PMWF8 (description="PHOTFARRAY255", quantity="1")
<i>Int1d</i>	PMWE9 (description="PHOTFARRAY256", quantity="1")
<i>Int1d</i>	PMWG9 (description="PHOTFARRAY257", quantity="1")

<i>Int1d</i>	PMWD9 (description="PHOTFARRAY258", quantity="1")
<i>Int1d</i>	PMWF9 (description="PHOTFARRAY259", quantity="1")
<i>Int1d</i>	PMWE10 (description="PHOTFARRAY260", quantity="1")
<i>Int1d</i>	PMWG10 (description="PHOTFARRAY261", quantity="1")
<i>Int1d</i>	PMWC4 (description="PHOTFARRAY262", quantity="1")
<i>Int1d</i>	PMWB3 (description="PHOTFARRAY263", quantity="1")
<i>Int1d</i>	PMWC3 (description="PHOTFARRAY264", quantity="1")
<i>Int1d</i>	PMWB2 (description="PHOTFARRAY265", quantity="1")
<i>Int1d</i>	PMWD2 (description="PHOTFARRAY266", quantity="1")
<i>Int1d</i>	PMWA3 (description="PHOTFARRAY267", quantity="1")
<i>Int1d</i>	PMWA2 (description="PHOTFARRAY268", quantity="1")
<i>Int1d</i>	PMWC2 (description="PHOTFARRAY269", quantity="1")
<i>Int1d</i>	PMWB1 (description="PHOTFARRAY270", quantity="1")
<i>Int1d</i>	PMWA1 (description="PHOTFARRAY271", quantity="1")
<i>Int1d</i>	PMWDP1 (description="PHOTFARRAY272", quantity="1")
<i>Int1d</i>	PMWC1 (description="PHOTFARRAY273", quantity="1")
<i>Int1d</i>	PMWA7 (description="PHOTFARRAY274", quantity="1")
<i>Int1d</i>	PMWA6 (description="PHOTFARRAY275", quantity="1")
<i>Int1d</i>	PMWB6 (description="PHOTFARRAY276", quantity="1")
<i>Int1d</i>	PMWC7 (description="PHOTFARRAY277", quantity="1")
<i>Int1d</i>	PMWA5 (description="PHOTFARRAY278", quantity="1")
<i>Int1d</i>	PMWB5 (description="PHOTFARRAY279", quantity="1")
<i>Int1d</i>	PMWC6 (description="PHOTFARRAY280", quantity="1")
<i>Int1d</i>	PMWD6 (description="PHOTFARRAY281", quantity="1")
<i>Int1d</i>	PMWB4 (description="PHOTFARRAY282", quantity="1")
<i>Int1d</i>	PMWC5 (description="PHOTFARRAY283", quantity="1")
<i>Int1d</i>	PMWD4 (description="PHOTFARRAY284", quantity="1")
<i>Int1d</i>	PMWA4 (description="PHOTFARRAY285", quantity="1")
<i>Int1d</i>	PTCP1 (description="PHOTFARRAY286", quantity="1")
<i>Int1d</i>	PTCP2 (description="PHOTFARRAY287", quantity="1")
<i>Int1d</i>	PTCP3 (description="PHOTFARRAY288", quantity="1")
<i>Double1d</i>	corrTime (description="null", quantity="UTC")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="temperature", description="Temperature")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="signal", description="Flux Signal Timelines")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="ra", description="RA timeline")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="dec", description="Dec timeline")

	()
<i>table dataset</i>	Dataset similar to the one above with (name="angVelocity", description="Angular Velocity")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.3.4. SPIRE Product Level 1 - Photometer Scan Product

<i>product (type="PSP", description="Photometer Scan Product")</i>	
<i>Meta- data</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")

StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
DoubleParameter	biasFreq (description="Bias frequency", quantity="Hz")
StringParameter	elecSide (description="Electronic side", quantity="Hz")
StringParameter	modelName (description="Model name attached to this product", quantity="Hz")
StringParameter	formatVersion (description="Version of product format", quantity="Hz")
StringParameter	missionConfig (description="Mission configuration", quantity="Hz")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	type (description="Product Type Identification", quantity="arcsec/year")
StringParameter	description (description="Name of this product", quantity="arcsec/year")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="arcsec/year")
StringParameter	calVersion (description="Calibration version", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec/year")

StringParameter	bbTypeName (description="Building block type name", quantity="arcsec/year")
StringParameter	signalTable (description="Name of the signal table", quantity="arcsec/year")
LongParameter	maskDead (description="Mask value for dead channel", quantity="arcsec/year")
LongParameter	maskMaster (description="Mask value for master bit", quantity="arcsec/year")
LongParameter	maskNoisy (description="Mask value for noisy channel", quantity="arcsec/year")
LongParameter	maskSlow (description="Mask value for slow channel", quantity="arcsec/year")
BooleanParameter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="arcsec/year")
DoubleParameter	ratioTruncatedPLW (description="Maximum ratio of out of range values to total number of values in PLW data.", quantity="arcsec/year")
DoubleParameter	ratioTruncatedPMW (description="Maximum ratio of out of range values to total number of values in PMW data.", quantity="arcsec/year")
DoubleParameter	ratioTruncatedPSW (description="Maximum ratio of out of range values to total number of values in PSW data.", quantity="arcsec/year")
DoubleParameter	ratioTruncatedPTC (description="Total fraction of out of range values for PTC", quantity="arcsec/year")
LongParameter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="arcsec/year")
LongParameter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="arcsec/year")
LongParameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="arcsec/year")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="arcsec/year")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="arcsec/year")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
BooleanParameter	rcRollApp (description="RC roll correction applied", quantity="ms/min")
DoubleParameter	subkTempDrift (description="Drift measured by the SubK temperature probe", quantity="K")
LongParameter	maskGlitchL1Detected (description="Mask value for first level glitch detected", quantity="K")
LongParameter	maskGlitchL1NotRemoved (description="Mask value for first level glitch detected and not removed", quantity="K")
DoubleParameter	ratioSamplesOutOfCalibrationRangePSW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="K")

LongParameter	numberBelowK3VoltagePSW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="K")
DoubleParameter	ratioSamplesOutOfCalibrationRangePMW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="K")
LongParameter	numberBelowK3VoltagePMW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="K")
DoubleParameter	ratioSamplesOutOfCalibrationRangePLW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="K")
LongParameter	numberBelowK3VoltagePLW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="K")
LongParameter	maskVoltageOol (description="Mask value for voltage out of fitted range", quantity="K")
LongParameter	maskVoltageBelowK3 (description="Mask value for voltage below K3", quantity="K")
LongParameter	maskNoRespData (description="Mask value for voltage out of fitted range and/or below K3", quantity="K")
DateParameter	respControlStamp (description="Control Stamp used to ensure synchronization of Flux Conversion and Temperature Drift correction tasks", quantity="K")
StringParameter	thermistorUsedInCorrectionPLW (description="Identifies Which PLW Thermistor Was Used in Correction Or If No Correction Was Done", quantity="K")
StringParameter	thermistorUsedInCorrectionPMW (description="Identifies Which PMW Thermistor Was Used in Correction Or If No Correction Was Done.", quantity="K")
StringParameter	thermistorUsedInCorrectionPSW (description="Identifies Which PSW Thermistor Was Used in Correction Or If No Correction Was Done.", quantity="K")
LongParameter	maskNotChoppedToSky (description="Mask value for channel not chopped to sky", quantity="K")
LongParameter	maskTsignalHdv (description="Mask value for thermistor/DP signal deviations are larger than expected", quantity="K")
LongParameter	maskJumpThermistorsDarksSignal (description="Mask value for signal jump in the thermistor/dark timeline", quantity="K")
LongParameter	maskNoThermistorAvailable (description="Mask value for all the available thermistors are affected by either saturation or signal jump", quantity="K")
LongParameter	maskNoDarkChannelAvailable (description="Mask value for all available dark channels in the array are affected by either saturation or signal jump", quantity="K")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="K")
DoubleParameter	plwBiasAmpl (description="PLW bias amplitude", quantity="V")
DoubleParameter	pmwBiasAmpl (description="PMW bias amplitude", quantity="V")
DoubleParameter	pswBiasAmpl (description="PSW bias amplitude", quantity="V")
DoubleParameter	ptcBiasAmpl (description="PTC bias amplitude", quantity="V")

DoubleParameter	plwBiasPhase (description="PLW bias phase", quantity="rad")
DoubleParameter	pmwBiasPhase (description="PMW bias phase", quantity="rad")
DoubleParameter	pswBiasPhase (description="PSW bias phase", quantity="rad")
DoubleParameter	ptcBiasPhase (description="PTC bias phase", quantity="rad")
BooleanParameter	temperatureDriftCorrectionDone (description="Indicate the status of the temperature correction.", quantity="rad")
StringParameter	scanSpeed (description="Speed of scan", quantity="rad")
LongParameter	scanLineNum (description="Scan line number", quantity="rad")
BooleanParameter	electricalCrosstalkCorrectionDone (description="Flag set when the electrical crosstalk correction is done", quantity="rad")
DateParameter	startNominalScanLine (description="Start date of the nominal scan line", quantity="rad")
DateParameter	endNominalScanLine (description="End date of the nominal scan line", quantity="rad")
LongParameter	numberBadVoltageOffsetPLW (description="Number of PLW bolometers with bad voltage offset resets", quantity="rad")
LongParameter	numberBadVoltageOffsetPMW (description="Number of PMW bolometers with bad voltage offset resets", quantity="rad")
LongParameter	numberBadVoltageOffsetPSW (description="Number of PSW bolometers with bad voltage offset resets", quantity="rad")
BooleanParameter	coolerBurpDetected (description="Indicates a cooler burp", quantity="rad")
BooleanParameter	coolerBurpCorrected (description="Indicate the status of the cooler burp correction.", quantity="rad")
DoubleParameter	kappa (description="Value of standard deviations to use in jump detection algorithm", quantity="rad")
BooleanParameter	fluxConversionDone (description="Indicates nominal termination of FluxConversion Task", quantity="rad")
StringParameter	signalJumpPLW (description="Identifies a Signal Jump in Thermistor or Dark Pixel for PLW", quantity="rad")
BooleanParameter	switchThermistorsPLW (description="Switch from using two thermistors to one, or from one thermistor to dark pixels when either a jump or saturation is detected for PLW.", quantity="rad")
DoubleParameter	ratioPhotFirstLevelGlitchesPSW (description="Ratio of number of flagged samples over number of data samples in the detectors of the PSW array", quantity="rad")
DoubleParameter	ratioPhotFirstLevelGlitchesPMW (description="Ratio of number of flagged samples over number of data samples in the detectors of the PMW array", quantity="rad")
DoubleParameter	ratioPhotFirstLevelGlitchesPLW (description="Ratio of number of flagged samples over number of data samples in the detectors of the PLW array", quantity="rad")
LongParameter	bsmRangeDuringScan (description="Range of the BSM motion during scan map observations", quantity="rad")
Columns	

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<i>Int1d</i>	PTCP2 (description="PHOTFARRAY287", quantity="1")
<i>Int1d</i>	PTCP3 (description="PHOTFARRAY288", quantity="1")
<i>Double1d</i>	corrTime (description="null", quantity="UTC")

	()
<i>table dataset</i>	Dataset similar to the one above with (name="temperature", description="Temperature")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="signal", description="Flux Signal Timelines")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="ra", description="RA timeline")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="dec", description="Dec timeline")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="angVelocity", description="Angular Velocity")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.3.5. SPIRE Product Level 1 - Photometry averaged blue product

<i>product (type="HPPAVGBS", description="Photometry averaged blue product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
DoubleParameter	Apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")

StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
DoubleParameter	wavelength (description="Filter reference wavelength", quantity="micrometer")
LongParameter	phot_red_FailedSPUBuffer (description="null", quantity="micrometer")
LongParameter	phot_blue_FailedSPUBuffer (description="null", quantity="micrometer")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="micrometer")
LongParameter	RemovedSetTime (description="Number of removed Frames due to setTime command", quantity="micrometer")
StringParameter	level (description="Product level", quantity="micrometer")
LongParameter	obsid (description="Observation Identifier", quantity="micrometer")
LongParameter	obsType (description="Observation type", quantity="micrometer")
LongParameter	obsCount (description="Observation counter", quantity="micrometer")
StringParameter	camera (description="Camera", quantity="micrometer")
LongParameter	odNumber (description="Operational Day Number count", quantity="micrometer")
StringParameter	cusMode (description="line or range spectroscopy", quantity="micrometer")
StringParameter	instMode (description="Instrument Mode", quantity="micrometer")
StringParameter	obsMode (description="Observation mode name", quantity="micrometer")
StringParameter	processingMode (description="SPG pipeline processing mode selected", quantity="micrometer")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT", quantity="micrometer")
StringParameter	observer (description="Observer name", quantity="micrometer")
StringParameter	proposal (description="Proposal name", quantity="micrometer")
StringParameter	pointingMode (description="Pointing mode", quantity="micrometer")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="micrometer")
StringParameter	origin (description="Site that created the product", quantity="micrometer")
StringParameter	aorLabel (description="AOR Label as entered in HSpot", quantity="micrometer")
StringParameter	aot (description="AOT Identifier", quantity="micrometer")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="micrometer")
StringParameter	missionConfig (description="Mission configuration", quantity="micrometer")
StringParameter	object (description="Target name", quantity="micrometer")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="micrometer")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")

DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="Observation Mode", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	debug (description="???", quantity="km s-1")
BooleanParameter	isBrightPacs (description="HSPOT: bright source for PACS (true/false)", quantity="km s-1")
BooleanParameter	isBrightSpire (description="HSPOT: bright source for SPIRE (true/false)", quantity="km s-1")
BooleanParameter	mapOrientationArray (description="HSPOT: The map orientation reference frame is 'array' (rather than array with sky constraints) true/false", quantity="km s-1")
BooleanParameter	pBool1 (description="???", quantity="km s-1")
BooleanParameter	pBool2 (description="???", quantity="km s-1")
DoubleParameter	mapOffsetY (description="HSPOT: offset to observation position from target in Y direction", quantity="arcmin")
DoubleParameter	mapOffsetZ (description="HSPOT: offset to observation position from target in Z direction", quantity="arcmin")
DoubleParameter	mapOrientationConFrom (description="HSPOT: Map orientation constraint lower limit", quantity="arcmin")
DoubleParameter	mapOrientationConTo (description="HSPOT: Map orientation constraint upper limit", quantity="arcmin")
DoubleParameter	mapSize1 (description="HSPOT: map length", quantity="arcmin")
DoubleParameter	mapSize2 (description="HSPOT: map height", quantity="arcmin")
DoubleParameter	pDouble1 (description="???", quantity="arcmin")
DoubleParameter	pDouble2 (description="???", quantity="arcmin")
LongParameter	pInt1 (description="???", quantity="arcmin")
LongParameter	pInt2 (description="???", quantity="arcmin")
StringParameter	blue (description="HSPOT: PACS blue filter selection (values blue1 or blue2)", quantity="arcmin")

StringParameter	bsmModel (description="???", quantity="arcmin")
StringParameter	bsmVersion (description="???", quantity="arcmin")
StringParameter	comVersion (description="???", quantity="arcmin")
StringParameter	flashVersion (description="???", quantity="arcmin")
StringParameter	mapScanRate (description="HSPOT: map scan rate (fast / slow)", quantity="arcmin")
StringParameter	opsVersion (description="???", quantity="arcmin")
StringParameter	pString1 (description="???", quantity="arcmin")
StringParameter	pString2 (description="???", quantity="arcmin")
StringParameter	photVersion (description="???", quantity="arcmin")
StringParameter	scanDirection (description="HSPOT: map scan direction (nominal / orthogonal)", quantity="arcmin")
StringParameter	spireVersion (description="???", quantity="arcmin")
DateParameter	odStartTime (description="Operational Day start time", quantity="arcmin")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="arcmin")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="arcmin")
DoubleParameter	BOL_VD_B_1 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_1 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_2 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_2 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_3 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_3 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_4 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_4 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_R_1 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_R_1 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_R_2 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_R_2 (description="null", quantity="arcmin")
DoubleParameter	mapScanVelocity (description="Nominal scanning velocity", quantity="arcsec s-1")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
StringParameter	Glitchmask (description="Mask added by secondLevelDeglitch task", quantity="deg")
<i>Columns</i>	
<i>array dataset</i>	(description="null")
<i>Metadata</i>	

<i>Columns</i>	
<i>Double3d</i>	(description="null", quantity="Jy")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.3.6. SPIRE Product Level 1 - Photometry averaged red product

<i>product (type="HPPAVGRS", description="Photometry averaged red product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
DoubleParameter	Apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
DoubleParameter	wavelength (description="Filter reference wavelength", quantity="micrometer")
LongParameter	phot_red_FailedSPUBuffer (description="null", quantity="micrometer")
LongParameter	phot_blue_FailedSPUBuffer (description="null", quantity="micrometer")
BooleanParameter	pacsSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="micrometer")
LongParameter	RemovedSetTime (description="Number of removed Frames due to setTime command", quantity="micrometer")
StringParameter	level (description="Product level", quantity="micrometer")

LongParameter	obsid (description="Observation Identifier", quantity="micrometer")
LongParameter	obsType (description="Observation type", quantity="micrometer")
LongParameter	obsCount (description="Observation counter", quantity="micrometer")
StringParameter	camera (description="Camera", quantity="micrometer")
LongParameter	odNumber (description="Operational Day Number count", quantity="micrometer")
StringParameter	cusMode (description="line or range spectroscopy", quantity="micrometer")
StringParameter	instMode (description="Instrument Mode", quantity="micrometer")
StringParameter	obsMode (description="Observation mode name", quantity="micrometer")
StringParameter	processingMode (description="SPG pipeline processing mode selected", quantity="micrometer")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT", quantity="micrometer")
StringParameter	observer (description="Observer name", quantity="micrometer")
StringParameter	proposal (description="Proposal name", quantity="micrometer")
StringParameter	pointingMode (description="Pointing mode", quantity="micrometer")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="micrometer")
StringParameter	origin (description="Site that created the product", quantity="micrometer")
StringParameter	aorLabel (description="AOR Label as entered in HSpot", quantity="micrometer")
StringParameter	aot (description="AOT Identifier", quantity="micrometer")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="micrometer")
StringParameter	missionConfig (description="Mission configuration", quantity="micrometer")
StringParameter	object (description="Target name", quantity="micrometer")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="micrometer")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")

LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="Observation Mode", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	debug (description="???", quantity="km s-1")
BooleanParameter	isBrightPacs (description="HSPOT: bright source for PACS (true/false)", quantity="km s-1")
BooleanParameter	isBrightSpire (description="HSPOT: bright source for SPIRE (true/false)", quantity="km s-1")
BooleanParameter	mapOrientationArray (description="HSPOT: The map orientation reference frame is 'array' (rather than array with sky constraints) true/false", quantity="km s-1")
BooleanParameter	pBool1 (description="???", quantity="km s-1")
BooleanParameter	pBool2 (description="???", quantity="km s-1")
DoubleParameter	mapOffsetY (description="HSPOT: offset to observation position from target in Y direction", quantity="arcmin")
DoubleParameter	mapOffsetZ (description="HSPOT: offset to observation position from target in Z direction", quantity="arcmin")
DoubleParameter	mapOrientationConFrom (description="HSPOT: Map orientation constraint lower limit", quantity="arcmin")
DoubleParameter	mapOrientationConTo (description="HSPOT: Map orientation constraint upper limit", quantity="arcmin")
DoubleParameter	mapSize1 (description="HSPOT: map length", quantity="arcmin")
DoubleParameter	mapSize2 (description="HSPOT: map height", quantity="arcmin")
DoubleParameter	pDouble1 (description="???", quantity="arcmin")
DoubleParameter	pDouble2 (description="???", quantity="arcmin")
LongParameter	pInt1 (description="???", quantity="arcmin")
LongParameter	pInt2 (description="???", quantity="arcmin")
StringParameter	blue (description="HSPOT: PACS blue filter selection (values blue1 or blue2)", quantity="arcmin")
StringParameter	bsmModel (description="???", quantity="arcmin")
StringParameter	bsmVersion (description="???", quantity="arcmin")
StringParameter	comVersion (description="???", quantity="arcmin")
StringParameter	flashVersion (description="???", quantity="arcmin")
StringParameter	mapScanRate (description="HSPOT: map scan rate (fast / slow)", quantity="arcmin")
StringParameter	opsVersion (description="???", quantity="arcmin")
StringParameter	pString1 (description="???", quantity="arcmin")
StringParameter	pString2 (description="???", quantity="arcmin")
StringParameter	photVersion (description="???", quantity="arcmin")

StringParameter	scanDirection (description="HSPOT: map scan direction (nominal / orthogonal)", quantity="arcmin")
StringParameter	spireVersion (description="???", quantity="arcmin")
DateParameter	odStartTime (description="Operational Day start time", quantity="arcmin")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="arcmin")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="arcmin")
DoubleParameter	BOL_VD_B_1 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_1 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_2 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_2 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_3 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_3 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_4 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_4 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_R_1 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_R_1 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_R_2 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_R_2 (description="null", quantity="arcmin")
DoubleParameter	mapScanVelocity (description="Nominal scanning velocity", quantity="arcsec s-1")
LongParameter	sliceNumber (description="Slice number", quantity="arcsec s-1")
BooleanParameter	isInterlaced (description="null", quantity="arcsec s-1")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
StringParameter	Glitchmask (description="Mask added by secondLevelDeglitch task", quantity="deg")
<i>Columns</i>	
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double3d</i>	(description="null", quantity="Jy")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.3.7. SPIRE Product Level 1 - Averaged Pointed Photometer Product

<i>product</i> (type="APPP", description="Averaged Pointed Photometer Product")

<i>Metada- ta</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
DoubleParameter	biasFreq (description="Bias frequency", quantity="Hz")
StringParameter	elecSide (description="Electronic side", quantity="Hz")
StringParameter	modelName (description="Model name attached to this product", quantity="Hz")

StringParameter	formatVersion (description="Version of product format", quantity="Hz")
StringParameter	missionConfig (description="Mission configuration", quantity="Hz")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	type (description="Product Type Identification", quantity="arcsec/year")
StringParameter	description (description="Name of this product", quantity="arcsec/year")
StringParameter	calVersion (description="Calibration version", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
LongParameter	maskDead (description="Mask value for dead channel", quantity="arcsec/year")
LongParameter	maskMaster (description="Mask value for master bit", quantity="arcsec/year")
LongParameter	maskNoisy (description="Mask value for noisy channel", quantity="arcsec/year")
LongParameter	maskSlow (description="Mask value for slow channel", quantity="arcsec/year")
LongParameter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="arcsec/year")
LongParameter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="arcsec/year")
LongParameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="arcsec/year")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="arcsec/year")

LongParameter	maskGlitchL1Detected (description="Mask value for first level glitch detected", quantity="arcsec/year")
LongParameter	maskGlitchL1NotRemoved (description="Mask value for first level glitch detected and not removed", quantity="arcsec/year")
DoubleParameter	ratioSamplesOutOfCalibrationRangePSW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="arcsec/year")
LongParameter	numberBelowK3VoltagePSW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="arcsec/year")
DoubleParameter	ratioSamplesOutOfCalibrationRangePMW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="arcsec/year")
LongParameter	numberBelowK3VoltagePMW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="arcsec/year")
DoubleParameter	ratioSamplesOutOfCalibrationRangePLW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="arcsec/year")
LongParameter	numberBelowK3VoltagePLW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="arcsec/year")
LongParameter	maskVoltageOol (description="Mask value for voltage out of fitted range", quantity="arcsec/year")
LongParameter	maskVoltageBelowK3 (description="Mask value for voltage below K3", quantity="arcsec/year")
LongParameter	maskNoRespData (description="Mask value for voltage out of fitted range and/or below K3", quantity="arcsec/year")
LongParameter	maskNotChoppedToSky (description="Mask value for channel not chopped to sky", quantity="arcsec/year")
DoubleParameter	ratioPhotSecondLevelGlitchesPSW (description="Maximum ratio of number of 2nd-level flagged samples over number of data samples in the detectors of the PSW array", quantity="arcsec/year")
DoubleParameter	ratioPhotSecondLevelGlitchesPMW (description="Maximum ratio of number of 2nd-level flagged samples over number of data samples in the detectors of the PMW array", quantity="arcsec/year")
DoubleParameter	ratioPhotSecondLevelGlitchesPLW (description="Maximum ratio of number of 2nd-level flagged samples over number of data samples in the detectors of the PLW array", quantity="arcsec/year")
DoubleParameter	plwBiasAmpl (description="PLW bias amplitude", quantity="V")
DoubleParameter	pmwBiasAmpl (description="PMW bias amplitude", quantity="V")
DoubleParameter	pswBiasAmpl (description="PSW bias amplitude", quantity="V")
DoubleParameter	ptcBiasAmpl (description="PTC bias amplitude", quantity="V")
LongParameter	denodDropped (description="Number of incomplete integrations", quantity="V")

LongParameter	numberMissingPositions (description="Number of missing jiggle positions", quantity="V")
LongParameter	numberBsmJiggleSoftLimit (description="Number of bsm jiggle positions hitting the soft limit.", quantity="V")
LongParameter	numberBsmChopSoftLimit (description="Number of bsm chop positions hitting the soft limit.", quantity="V")
DoubleParameter	spireNodPointingUncertainty (description="Nod Pointing Uncertainty in arcsec", quantity="arcsec")
DoubleParameter	spireAverageNodPointingUncertainty (description="Average Nod Pointing Uncertainty in arcsec", quantity="arcsec")
DoubleParameter	ratioNodOutlierPSW (description="Fraction of 5 sigma outliers of the signal from the individual nod cycles for PSW array", quantity="arcsec")
DoubleParameter	ratioNodOutlierPMW (description="Fraction of 5 sigma outliers of the signal from the individual nod cycles for PMW array", quantity="arcsec")
DoubleParameter	ratioNodOutlierPLW (description="Fraction of 5 sigma outliers of the signal from the individual nod cycles for PLW array", quantity="arcsec")
DoubleParameter	chopCyclePositionUncertainty (description="Chopper Position Uncertainty adu", quantity="arcsec")
DoubleParameter	ratioPhotFirstLevelGlitchesPSW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the PSW array", quantity="arcsec")
DoubleParameter	ratioPhotFirstLevelGlitchesPMW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the PMW array", quantity="arcsec")
DoubleParameter	ratioPhotFirstLevelGlitchesPLW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the PLW array", quantity="arcsec")
DoubleParameter	spireAveragingPositionUncertainty (description="Chopper Position Uncertainty adu", quantity="arcsec")
Columns	
table dataset	(name="signal", description="signal")
Metadata	
Columns	
ByteId	jiggId (description="null", quantity="none")
DoubleId	PLWA1 (description="null", quantity="Jy")
DoubleId	PLWA2 (description="null", quantity="Jy")
DoubleId	PLWA3 (description="null", quantity="Jy")
DoubleId	PLWA4 (description="null", quantity="Jy")
DoubleId	PLWA5 (description="null", quantity="Jy")
DoubleId	PLWA6 (description="null", quantity="Jy")
DoubleId	PLWA7 (description="null", quantity="Jy")
DoubleId	PLWA8 (description="null", quantity="Jy")
DoubleId	PLWA9 (description="null", quantity="Jy")
DoubleId	PLWB1 (description="null", quantity="Jy")
DoubleId	PLWB2 (description="null", quantity="Jy")

<i>Double1d</i>	PLWB3 (description="null", quantity="Jy")
<i>Double1d</i>	PLWB4 (description="null", quantity="Jy")
<i>Double1d</i>	PLWB5 (description="null", quantity="Jy")
<i>Double1d</i>	PLWB6 (description="null", quantity="Jy")
<i>Double1d</i>	PLWB7 (description="null", quantity="Jy")
<i>Double1d</i>	PLWB8 (description="null", quantity="Jy")
<i>Double1d</i>	PLWC1 (description="null", quantity="Jy")
<i>Double1d</i>	PLWC2 (description="null", quantity="Jy")
<i>Double1d</i>	PLWC3 (description="null", quantity="Jy")
<i>Double1d</i>	PLWC4 (description="null", quantity="Jy")
<i>Double1d</i>	PLWC5 (description="null", quantity="Jy")
<i>Double1d</i>	PLWC6 (description="null", quantity="Jy")
<i>Double1d</i>	PLWC7 (description="null", quantity="Jy")
<i>Double1d</i>	PLWC8 (description="null", quantity="Jy")
<i>Double1d</i>	PLWC9 (description="null", quantity="Jy")
<i>Double1d</i>	PLWD1 (description="null", quantity="Jy")
<i>Double1d</i>	PLWD2 (description="null", quantity="Jy")
<i>Double1d</i>	PLWD3 (description="null", quantity="Jy")
<i>Double1d</i>	PLWD4 (description="null", quantity="Jy")
<i>Double1d</i>	PLWD5 (description="null", quantity="Jy")
<i>Double1d</i>	PLWD6 (description="null", quantity="Jy")
<i>Double1d</i>	PLWD7 (description="null", quantity="Jy")
<i>Double1d</i>	PLWD8 (description="null", quantity="Jy")
<i>Double1d</i>	PLWE1 (description="null", quantity="Jy")
<i>Double1d</i>	PLWE2 (description="null", quantity="Jy")
<i>Double1d</i>	PLWE3 (description="null", quantity="Jy")
<i>Double1d</i>	PLWE4 (description="null", quantity="Jy")
<i>Double1d</i>	PLWE5 (description="null", quantity="Jy")
<i>Double1d</i>	PLWE6 (description="null", quantity="Jy")
<i>Double1d</i>	PLWE7 (description="null", quantity="Jy")
<i>Double1d</i>	PLWE8 (description="null", quantity="Jy")
<i>Double1d</i>	PLWE9 (description="null", quantity="Jy")
<i>Double1d</i>	PMWA1 (description="null", quantity="Jy")
<i>Double1d</i>	PMWA10 (description="null", quantity="Jy")
<i>Double1d</i>	PMWA11 (description="null", quantity="Jy")
<i>Double1d</i>	PMWA12 (description="null", quantity="Jy")
<i>Double1d</i>	PMWA13 (description="null", quantity="Jy")
<i>Double1d</i>	PMWA2 (description="null", quantity="Jy")
<i>Double1d</i>	PMWA3 (description="null", quantity="Jy")
<i>Double1d</i>	PMWA4 (description="null", quantity="Jy")
<i>Double1d</i>	PMWA5 (description="null", quantity="Jy")
<i>Double1d</i>	PMWA6 (description="null", quantity="Jy")

<i>Double1d</i>	PMWA7 (description="null", quantity="Jy")
<i>Double1d</i>	PMWA8 (description="null", quantity="Jy")
<i>Double1d</i>	PMWA9 (description="null", quantity="Jy")
<i>Double1d</i>	PMWB1 (description="null", quantity="Jy")
<i>Double1d</i>	PMWB10 (description="null", quantity="Jy")
<i>Double1d</i>	PMWB11 (description="null", quantity="Jy")
<i>Double1d</i>	PMWB12 (description="null", quantity="Jy")
<i>Double1d</i>	PMWB2 (description="null", quantity="Jy")
<i>Double1d</i>	PMWB3 (description="null", quantity="Jy")
<i>Double1d</i>	PMWB4 (description="null", quantity="Jy")
<i>Double1d</i>	PMWB5 (description="null", quantity="Jy")
<i>Double1d</i>	PMWB6 (description="null", quantity="Jy")
<i>Double1d</i>	PMWB7 (description="null", quantity="Jy")
<i>Double1d</i>	PMWB8 (description="null", quantity="Jy")
<i>Double1d</i>	PMWB9 (description="null", quantity="Jy")
<i>Double1d</i>	PMWC1 (description="null", quantity="Jy")
<i>Double1d</i>	PMWC10 (description="null", quantity="Jy")
<i>Double1d</i>	PMWC11 (description="null", quantity="Jy")
<i>Double1d</i>	PMWC12 (description="null", quantity="Jy")
<i>Double1d</i>	PMWC13 (description="null", quantity="Jy")
<i>Double1d</i>	PMWC2 (description="null", quantity="Jy")
<i>Double1d</i>	PMWC3 (description="null", quantity="Jy")
<i>Double1d</i>	PMWC4 (description="null", quantity="Jy")
<i>Double1d</i>	PMWC5 (description="null", quantity="Jy")
<i>Double1d</i>	PMWC6 (description="null", quantity="Jy")
<i>Double1d</i>	PMWC7 (description="null", quantity="Jy")
<i>Double1d</i>	PMWC8 (description="null", quantity="Jy")
<i>Double1d</i>	PMWC9 (description="null", quantity="Jy")
<i>Double1d</i>	PMWD1 (description="null", quantity="Jy")
<i>Double1d</i>	PMWD10 (description="null", quantity="Jy")
<i>Double1d</i>	PMWD11 (description="null", quantity="Jy")
<i>Double1d</i>	PMWD12 (description="null", quantity="Jy")
<i>Double1d</i>	PMWD2 (description="null", quantity="Jy")
<i>Double1d</i>	PMWD3 (description="null", quantity="Jy")
<i>Double1d</i>	PMWD4 (description="null", quantity="Jy")
<i>Double1d</i>	PMWD5 (description="null", quantity="Jy")
<i>Double1d</i>	PMWD6 (description="null", quantity="Jy")
<i>Double1d</i>	PMWD7 (description="null", quantity="Jy")
<i>Double1d</i>	PMWD8 (description="null", quantity="Jy")
<i>Double1d</i>	PMWD9 (description="null", quantity="Jy")
<i>Double1d</i>	PMWE1 (description="null", quantity="Jy")
<i>Double1d</i>	PMWE10 (description="null", quantity="Jy")

<i>Double1d</i>	PMWE11 (description="null", quantity="Jy")
<i>Double1d</i>	PMWE12 (description="null", quantity="Jy")
<i>Double1d</i>	PMWE13 (description="null", quantity="Jy")
<i>Double1d</i>	PMWE2 (description="null", quantity="Jy")
<i>Double1d</i>	PMWE3 (description="null", quantity="Jy")
<i>Double1d</i>	PMWE4 (description="null", quantity="Jy")
<i>Double1d</i>	PMWE5 (description="null", quantity="Jy")
<i>Double1d</i>	PMWE6 (description="null", quantity="Jy")
<i>Double1d</i>	PMWE7 (description="null", quantity="Jy")
<i>Double1d</i>	PMWE8 (description="null", quantity="Jy")
<i>Double1d</i>	PMWE9 (description="null", quantity="Jy")
<i>Double1d</i>	PMWF1 (description="null", quantity="Jy")
<i>Double1d</i>	PMWF10 (description="null", quantity="Jy")
<i>Double1d</i>	PMWF11 (description="null", quantity="Jy")
<i>Double1d</i>	PMWF12 (description="null", quantity="Jy")
<i>Double1d</i>	PMWF2 (description="null", quantity="Jy")
<i>Double1d</i>	PMWF3 (description="null", quantity="Jy")
<i>Double1d</i>	PMWF4 (description="null", quantity="Jy")
<i>Double1d</i>	PMWF5 (description="null", quantity="Jy")
<i>Double1d</i>	PMWF6 (description="null", quantity="Jy")
<i>Double1d</i>	PMWF7 (description="null", quantity="Jy")
<i>Double1d</i>	PMWF8 (description="null", quantity="Jy")
<i>Double1d</i>	PMWF9 (description="null", quantity="Jy")
<i>Double1d</i>	PMWG1 (description="null", quantity="Jy")
<i>Double1d</i>	PMWG10 (description="null", quantity="Jy")
<i>Double1d</i>	PMWG11 (description="null", quantity="Jy")
<i>Double1d</i>	PMWG12 (description="null", quantity="Jy")
<i>Double1d</i>	PMWG13 (description="null", quantity="Jy")
<i>Double1d</i>	PMWG2 (description="null", quantity="Jy")
<i>Double1d</i>	PMWG3 (description="null", quantity="Jy")
<i>Double1d</i>	PMWG4 (description="null", quantity="Jy")
<i>Double1d</i>	PMWG5 (description="null", quantity="Jy")
<i>Double1d</i>	PMWG6 (description="null", quantity="Jy")
<i>Double1d</i>	PMWG7 (description="null", quantity="Jy")
<i>Double1d</i>	PMWG8 (description="null", quantity="Jy")
<i>Double1d</i>	PMWG9 (description="null", quantity="Jy")
<i>Double1d</i>	PSWA1 (description="null", quantity="Jy")
<i>Double1d</i>	PSWA10 (description="null", quantity="Jy")
<i>Double1d</i>	PSWA11 (description="null", quantity="Jy")
<i>Double1d</i>	PSWA12 (description="null", quantity="Jy")
<i>Double1d</i>	PSWA13 (description="null", quantity="Jy")
<i>Double1d</i>	PSWA14 (description="null", quantity="Jy")

<i>Double1d</i>	PSWA15 (description="null", quantity="Jy")
<i>Double1d</i>	PSWA2 (description="null", quantity="Jy")
<i>Double1d</i>	PSWA3 (description="null", quantity="Jy")
<i>Double1d</i>	PSWA4 (description="null", quantity="Jy")
<i>Double1d</i>	PSWA5 (description="null", quantity="Jy")
<i>Double1d</i>	PSWA6 (description="null", quantity="Jy")
<i>Double1d</i>	PSWA7 (description="null", quantity="Jy")
<i>Double1d</i>	PSWA8 (description="null", quantity="Jy")
<i>Double1d</i>	PSWA9 (description="null", quantity="Jy")
<i>Double1d</i>	PSWB1 (description="null", quantity="Jy")
<i>Double1d</i>	PSWB10 (description="null", quantity="Jy")
<i>Double1d</i>	PSWB11 (description="null", quantity="Jy")
<i>Double1d</i>	PSWB12 (description="null", quantity="Jy")
<i>Double1d</i>	PSWB13 (description="null", quantity="Jy")
<i>Double1d</i>	PSWB14 (description="null", quantity="Jy")
<i>Double1d</i>	PSWB15 (description="null", quantity="Jy")
<i>Double1d</i>	PSWB16 (description="null", quantity="Jy")
<i>Double1d</i>	PSWB2 (description="null", quantity="Jy")
<i>Double1d</i>	PSWB3 (description="null", quantity="Jy")
<i>Double1d</i>	PSWB4 (description="null", quantity="Jy")
<i>Double1d</i>	PSWB5 (description="null", quantity="Jy")
<i>Double1d</i>	PSWB6 (description="null", quantity="Jy")
<i>Double1d</i>	PSWB7 (description="null", quantity="Jy")
<i>Double1d</i>	PSWB8 (description="null", quantity="Jy")
<i>Double1d</i>	PSWB9 (description="null", quantity="Jy")
<i>Double1d</i>	PSWC1 (description="null", quantity="Jy")
<i>Double1d</i>	PSWC10 (description="null", quantity="Jy")
<i>Double1d</i>	PSWC11 (description="null", quantity="Jy")
<i>Double1d</i>	PSWC12 (description="null", quantity="Jy")
<i>Double1d</i>	PSWC13 (description="null", quantity="Jy")
<i>Double1d</i>	PSWC14 (description="null", quantity="Jy")
<i>Double1d</i>	PSWC15 (description="null", quantity="Jy")
<i>Double1d</i>	PSWC2 (description="null", quantity="Jy")
<i>Double1d</i>	PSWC3 (description="null", quantity="Jy")
<i>Double1d</i>	PSWC4 (description="null", quantity="Jy")
<i>Double1d</i>	PSWC5 (description="null", quantity="Jy")
<i>Double1d</i>	PSWC6 (description="null", quantity="Jy")
<i>Double1d</i>	PSWC7 (description="null", quantity="Jy")
<i>Double1d</i>	PSWC8 (description="null", quantity="Jy")
<i>Double1d</i>	PSWC9 (description="null", quantity="Jy")
<i>Double1d</i>	PSWD1 (description="null", quantity="Jy")
<i>Double1d</i>	PSWD10 (description="null", quantity="Jy")

<i>Double1d</i>	PSWD11 (description="null", quantity="Jy")
<i>Double1d</i>	PSWD12 (description="null", quantity="Jy")
<i>Double1d</i>	PSWD13 (description="null", quantity="Jy")
<i>Double1d</i>	PSWD14 (description="null", quantity="Jy")
<i>Double1d</i>	PSWD15 (description="null", quantity="Jy")
<i>Double1d</i>	PSWD16 (description="null", quantity="Jy")
<i>Double1d</i>	PSWD2 (description="null", quantity="Jy")
<i>Double1d</i>	PSWD3 (description="null", quantity="Jy")
<i>Double1d</i>	PSWD4 (description="null", quantity="Jy")
<i>Double1d</i>	PSWD5 (description="null", quantity="Jy")
<i>Double1d</i>	PSWD6 (description="null", quantity="Jy")
<i>Double1d</i>	PSWD7 (description="null", quantity="Jy")
<i>Double1d</i>	PSWD8 (description="null", quantity="Jy")
<i>Double1d</i>	PSWD9 (description="null", quantity="Jy")
<i>Double1d</i>	PSWE1 (description="null", quantity="Jy")
<i>Double1d</i>	PSWE10 (description="null", quantity="Jy")
<i>Double1d</i>	PSWE11 (description="null", quantity="Jy")
<i>Double1d</i>	PSWE12 (description="null", quantity="Jy")
<i>Double1d</i>	PSWE13 (description="null", quantity="Jy")
<i>Double1d</i>	PSWE14 (description="null", quantity="Jy")
<i>Double1d</i>	PSWE15 (description="null", quantity="Jy")
<i>Double1d</i>	PSWE2 (description="null", quantity="Jy")
<i>Double1d</i>	PSWE3 (description="null", quantity="Jy")
<i>Double1d</i>	PSWE4 (description="null", quantity="Jy")
<i>Double1d</i>	PSWE5 (description="null", quantity="Jy")
<i>Double1d</i>	PSWE6 (description="null", quantity="Jy")
<i>Double1d</i>	PSWE7 (description="null", quantity="Jy")
<i>Double1d</i>	PSWE8 (description="null", quantity="Jy")
<i>Double1d</i>	PSWE9 (description="null", quantity="Jy")
<i>Double1d</i>	PSWF1 (description="null", quantity="Jy")
<i>Double1d</i>	PSWF10 (description="null", quantity="Jy")
<i>Double1d</i>	PSWF11 (description="null", quantity="Jy")
<i>Double1d</i>	PSWF12 (description="null", quantity="Jy")
<i>Double1d</i>	PSWF13 (description="null", quantity="Jy")
<i>Double1d</i>	PSWF14 (description="null", quantity="Jy")
<i>Double1d</i>	PSWF15 (description="null", quantity="Jy")
<i>Double1d</i>	PSWF16 (description="null", quantity="Jy")
<i>Double1d</i>	PSWF2 (description="null", quantity="Jy")
<i>Double1d</i>	PSWF3 (description="null", quantity="Jy")
<i>Double1d</i>	PSWF4 (description="null", quantity="Jy")
<i>Double1d</i>	PSWF5 (description="null", quantity="Jy")
<i>Double1d</i>	PSWF6 (description="null", quantity="Jy")

<i>Double1d</i>	PSWF7 (description="null", quantity="Jy")
<i>Double1d</i>	PSWF8 (description="null", quantity="Jy")
<i>Double1d</i>	PSWF9 (description="null", quantity="Jy")
<i>Double1d</i>	PSWG1 (description="null", quantity="Jy")
<i>Double1d</i>	PSWG10 (description="null", quantity="Jy")
<i>Double1d</i>	PSWG11 (description="null", quantity="Jy")
<i>Double1d</i>	PSWG12 (description="null", quantity="Jy")
<i>Double1d</i>	PSWG13 (description="null", quantity="Jy")
<i>Double1d</i>	PSWG14 (description="null", quantity="Jy")
<i>Double1d</i>	PSWG15 (description="null", quantity="Jy")
<i>Double1d</i>	PSWG2 (description="null", quantity="Jy")
<i>Double1d</i>	PSWG3 (description="null", quantity="Jy")
<i>Double1d</i>	PSWG4 (description="null", quantity="Jy")
<i>Double1d</i>	PSWG5 (description="null", quantity="Jy")
<i>Double1d</i>	PSWG6 (description="null", quantity="Jy")
<i>Double1d</i>	PSWG7 (description="null", quantity="Jy")
<i>Double1d</i>	PSWG8 (description="null", quantity="Jy")
<i>Double1d</i>	PSWG9 (description="null", quantity="Jy")
<i>Double1d</i>	PSWH1 (description="null", quantity="Jy")
<i>Double1d</i>	PSWH10 (description="null", quantity="Jy")
<i>Double1d</i>	PSWH11 (description="null", quantity="Jy")
<i>Double1d</i>	PSWH12 (description="null", quantity="Jy")
<i>Double1d</i>	PSWH13 (description="null", quantity="Jy")
<i>Double1d</i>	PSWH14 (description="null", quantity="Jy")
<i>Double1d</i>	PSWH15 (description="null", quantity="Jy")
<i>Double1d</i>	PSWH16 (description="null", quantity="Jy")
<i>Double1d</i>	PSWH2 (description="null", quantity="Jy")
<i>Double1d</i>	PSWH3 (description="null", quantity="Jy")
<i>Double1d</i>	PSWH4 (description="null", quantity="Jy")
<i>Double1d</i>	PSWH5 (description="null", quantity="Jy")
<i>Double1d</i>	PSWH6 (description="null", quantity="Jy")
<i>Double1d</i>	PSWH7 (description="null", quantity="Jy")
<i>Double1d</i>	PSWH8 (description="null", quantity="Jy")
<i>Double1d</i>	PSWH9 (description="null", quantity="Jy")
<i>Double1d</i>	PSWJ1 (description="null", quantity="Jy")
<i>Double1d</i>	PSWJ10 (description="null", quantity="Jy")
<i>Double1d</i>	PSWJ11 (description="null", quantity="Jy")
<i>Double1d</i>	PSWJ12 (description="null", quantity="Jy")
<i>Double1d</i>	PSWJ13 (description="null", quantity="Jy")
<i>Double1d</i>	PSWJ14 (description="null", quantity="Jy")
<i>Double1d</i>	PSWJ15 (description="null", quantity="Jy")
<i>Double1d</i>	PSWJ2 (description="null", quantity="Jy")

<i>Double1d</i>	PSWJ3 (description="null", quantity="Jy")
<i>Double1d</i>	PSWJ4 (description="null", quantity="Jy")
<i>Double1d</i>	PSWJ5 (description="null", quantity="Jy")
<i>Double1d</i>	PSWJ6 (description="null", quantity="Jy")
<i>Double1d</i>	PSWJ7 (description="null", quantity="Jy")
<i>Double1d</i>	PSWJ8 (description="null", quantity="Jy")
<i>Double1d</i>	PSWJ9 (description="null", quantity="Jy")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="error", description="error")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="dec", description="lat")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="errDec", description="errLat")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="ra", description="lon")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="errRa", description="errLon")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="mask", description="mask")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.3.8. SPIRE Product Level 1 - Spectrometer Detector Interferogram

<i>product (type="SDI", description="Spectrometer Detector Interferogram")</i>	
<i>Meta-data</i>	
<i>String-Parameter</i>	telescope (description="Name of telescope")
<i>String-Parameter</i>	instrument (description="Instrument attached to this product")
<i>String-Parameter</i>	subsystem (description="Instrument Subsystem")

String- Pa- ram- e- ter	source (description="TM source packet name")
String- Pa- ram- e- ter	creator (description="Generator of this product")
String- Pa- ram- e- ter	object (description="Target name")
String- Pa- ram- e- ter	observer (description="Observer name")
String- Pa- ram- e- ter	proposal (description="Proposal name")
Long- Pa- ram- e- ter	obsid (description="Observation identifier")
Long- Pa- ram- e- ter	odNumber (description="Operational day number")
DatePa- ram- e- ter	creationDate (description="Creation date of this product")
DatePa- ram- e- ter	startDate (description="Start date of this product")
DatePa- ram- e- ter	endDate (description="End date of this product")
String- Pa- ram- e- ter	aot (description="AOT Identifier")

String- Pa- ram- e- ter	aorLabel (description="AOR Label as entered in HSpot")
String- Pa- ram- e- ter	cusMode (description="CUS observation mode")
String- Pa- ram- e- ter	instMode (description="Instrument Mode")
String- Pa- ram- e- ter	obsMode (description="Observation mode name")
String- Pa- ram- e- ter	pointingMode (description="Pointing mode")
String- Pa- ram- e- ter	mapSampling (description="Spatial sampling of map")
String- Pa- ram- e- ter	biasMode (description="Bias mode")
Long- Pa- ram- e- ter	jiggId (description="Jiggle ID")
Long- Pa- ram- e- ter	pointNum (description="Pointing number")
Long- Pa- ram- e- ter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
DoublePa- ram-	onSourceTime (description="Total on-source integration time for this observation", quantity="s")

e- ter	
String- Pa- ram- e- ter	commandedResolution (description="Commanded Spectral Resolution", quantity="s")
Dou- blePa- ram- e- ter	biasFreq (description="Bias frequency", quantity="Hz")
String- Pa- ram- e- ter	elecSide (description="Electronic side", quantity="Hz")
String- Pa- ram- e- ter	modelName (description="Model name attached to this product", quantity="Hz")
String- Pa- ram- e- ter	formatVersion (description="Version of product format", quantity="Hz")
String- Pa- ram- e- ter	missionConfig (description="Mission configuration", quantity="Hz")
Dou- blePa- ram- e- ter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
String- Pa- ram- e- ter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
Dou- blePa- ram- e- ter	ra (description="Actual Right Ascension of pointing", quantity="deg")
Dou- blePa- ram- e- ter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
Dou- blePa-	dec (description="Actual Declination of pointing", quantity="deg")

ram- e- ter	
DoublePa- ram- e- ter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoublePa- ram- e- ter	posAngle (description="Position Angle of pointing", quantity="deg")
DoublePa- ram- e- ter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoublePa- ram- e- ter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoublePa- ram- e- ter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
String- Pa- ram- e- ter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
String- Pa- ram- e- ter	origin (description="Site that created the product", quantity="km s-1")
String- Pa- ram- e- ter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
String- Pa- ram- e- ter	type (description="Product Type Identification", quantity="km s-1")
String- Pa- ram- e- ter	description (description="Name of this product", quantity="km s-1")

String-Parameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="km s-1")
String-Parameter	calVersion (description="Calibration version", quantity="km s-1")
String-Parameter	level (description="The level of the product", quantity="km s-1")
String-Parameter	processResolution (description="The resolution that is to be used or was used to process the data", quantity="km s-1")
Long-Parameter	numScans (description="Number of Scans", quantity="km s-1")
Long-Parameter	bbid (description="Building Block Identifier", quantity="km s-1")
String-Parameter	bbTypeName (description="Building block type name", quantity="km s-1")
String-Parameter	freqFrame (description="Standard of rest for spectral axis", quantity="km s-1")
String-Parameter	apodType (description="Type of Apodization applied", quantity="km s-1")
String-Parameter	apodName (description="Name of Apodization function applied", quantity="km s-1")
Boolean-Parameter	phaseCorrApplied (description="Phase correction has been applied", quantity="km s-1")

e-ter	
String-Parameter	signalTable (description="Name of the signal table", quantity="km s-1")
Long-Parameter	maskDead (description="Mask value for dead channel", quantity="km s-1")
Long-Parameter	maskMaster (description="Mask value for master bit", quantity="km s-1")
Long-Parameter	maskNoisy (description="Mask value for noisy channel", quantity="km s-1")
Long-Parameter	maskSlow (description="Mask value for slow channel", quantity="km s-1")
Boolean-Parameter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="km s-1")
Double-Parameter	ratioTruncatedSSW (description="Maximum ratio of out of range values to total number of values in SSW data", quantity="km s-1")
Double-Parameter	ratioTruncatedSLW (description="Maximum ratio of out of range values to total number of values in SLW data", quantity="km s-1")
Long-Parameter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="km s-1")
Long-Parameter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="km s-1")
Long-Parameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="km s-1")

ram- e- ter	
DoublePa- ram- e- ter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="km s-1")
Long- Pa- ram- e- ter	maskInvalidTime (description="Mask value for invalid sample time", quantity="km s-1")
DoublePa- ram- e- ter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoublePa- ram- e- ter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
Boolean- Pa- ram- e- ter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
DoublePa- ram- e- ter	slwBiasAmpl (description="SLW bias amplitude", quantity="V")
DoublePa- ram- e- ter	sswBiasAmpl (description="SSW bias amplitude", quantity="V")
DoublePa- ram- e- ter	slwBiasPhase (description="SLW bias phase", quantity="rad")
DoublePa- ram- e- ter	sswBiasPhase (description="SSW bias phase", quantity="rad")
Boolean- Pa- ram- e- ter	rcRollApp (description="RC roll correction applied", quantity="rad")

DoubleParameter	subkTempDrift (description="Drift measured by the SubK temperature probe", quantity="K")
LongParameter	maskGlitchL1Detected (description="Mask value for first level glitch detected", quantity="K")
LongParameter	maskGlitchL1NotRemoved (description="Mask value for first level glitch detected and not removed", quantity="K")
DoubleParameter	ratioSpecFirstLevelGlitchesSLW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the SLW array", quantity="K")
DoubleParameter	ratioSpecFirstLevelGlitchesSSW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the SSW array", quantity="K")
DoubleParameter	ratioSamplesOutOfCalibrationRangeSSW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="K")
LongParameter	numberBelowK3VoltageSSW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="K")
DoubleParameter	ratioSamplesOutOfCalibrationRangeSLW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="K")
LongParameter	numberBelowK3VoltageSLW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="K")
LongParameter	maskVoltageOol (description="Mask value for voltage out of fitted range", quantity="K")
LongParameter	maskVoltageBelowK3 (description="Mask value for voltage below K3", quantity="K")

e- ter	
Long- Pa- ram- e- ter	maskNoRespData (description="Mask value for voltage out of fitted range and/or below K3", quantity="K")
Boolean- Pa- ram- e- ter	SpecNonLinearityCorrectionDone (description="null", quantity="K")
String- Pa- ram- e- ter	respControlStamp (description="null", quantity="K")
Long- Pa- ram- e- ter	numberClippedDetectorsSLW (description="Maximum number of detectors in SLW where at least one sample was flagged as clipped and could not be corrected", quantity="K")
Long- Pa- ram- e- ter	numberClippedDetectorsSSW (description="Maximum number of detectors in SSW where at least one sample was flagged as clipped and could not be corrected", quantity="K")
DoublePa- ram- e- ter	scanExtrema (description="Maximum ratio of measured SMEC scan extrema to commanded scan extrema", quantity="K")
DoublePa- ram- e- ter	smecTemperature (description="Maximum difference between maximum and minimum SMEC temperatures (in K)", quantity="K")
Long- Pa- ram- e- ter	missedFringes (description="Maximum number of missed optical encoder fringes", quantity="K")
DoublePa- ram- e- ter	stageSpeedAverage (description="Maximum ratio of the measured SMEC speed to the commanded SMEC speed", quantity="K")
DoublePa- ram- e- ter	stageSpeedDeviation (description="Maximum standard deviation of the SMEC speed (in micron/s)", quantity="K")
Long- Pa- ram- e- ter	smecOpenLoopCount (description="Number of housekeeping entries which indicate that the SMEC is not in closed loop", quantity="K")

ram- e- ter	
DoublePa- ram- e- ter	ratioSpecSecondLevelGlitchesSSW (description="Maximum ratio of number of 2nd-level flagged samples over number of data samples in the detectors of the SSW array", quantity="K")
DoublePa- ram- e- ter	ratioSpecSecondLevelGlitchesSLW (description="Maximum ratio of number of 2nd-level flagged samples over number of data samples in the detectors of the SLW array", quantity="K")
DoublePa- ram- e- ter	residualPhaseSLW (description="Maximum phase within the phase correction limits (in units of degree) for SLW", quantity="K")
DoublePa- ram- e- ter	residualPhaseSSW (description="Maximum phase within the phase correction limits (in units of degree) for SSW", quantity="K")
DoublePa- ram- e- ter	outOfBandHighRatioSLW (description="Maximum ratio of the mean of the absolute flux between 1200 and 5996 GHz over the mean of the absolute flux within the band edges.", quantity="K")
DoublePa- ram- e- ter	outOfBandHighRatioSSW (description="Maximum ratio of the mean of the absolute flux between 1799 and 5996 GHz over the mean of the absolute flux within the band edges.", quantity="K")
DoublePa- ram- e- ter	outOfBandLowRatioSLW (description="Maximum ratio of the mean of the absolute flux between 0.03 and 360 GHz over the mean of the absolute flux within the band edges.", quantity="K")
DoublePa- ram- e- ter	outOfBandLowRatioSSW (description="Maximum ratio of the mean of the absolute flux between 0.03 and 900 GHz over the mean of the absolute flux within the band edges.", quantity="K")
DoublePa- ram- e- ter	deltaSCalTemp (description="SCal maximum temperature variation (in K)", quantity="K")
DoublePa- ram- e- ter	deltaSCal2Temp (description="SCal2 maximum temperature variation (in K)", quantity="K")

DoubleParameter	deltaSCal4Temp (description="SCal4 maximum temperature variation (in K)", quantity="K")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="K")
Columns	
composite	(description="null")
Meta-data	
Long-Parameter	count (description="Set number")
Long-Parameter	scanNumber (description="Scan number")
String-Parameter	scanDir (description="Scan direction")
DateParameter	scanStartDate (description="Start date of the FTS scan")
DateParameter	scanEndDate (description="End date of the FTS scan")
Columns	
table dataset	(name="SLWA1", description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
String-Parameter	channelName (description="Channel name", quantity="deg")

	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
	table dataset	(name="SLWA2", description="null")
	Meta-data	
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
	table dataset	(name="SLWA3", description="null")
	Meta-data	
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")

String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SLWB1", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SLWB2", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")

	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SLWB3", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SLWB4", description="null")
<i>Meta-data</i>		

	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SLWC1", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")

<i>table</i>	<i>(name="SLWC2", description="null")</i>
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table</i>	<i>(name="SLWC3", description="null")</i>
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")

	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SLWC4", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SLWC5", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table</i>	(name="SLWD1", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table</i>	(name="SLWD2", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")

	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
	table dataset	(name="SLWD3", description="null")
	Meta-data	
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
	table dataset	(name="SLWD4", description="null")
	Meta-data	
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")

String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SLWE1", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SLWE2", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")

	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SLWE3", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWA1", description="null")
<i>Meta-data</i>		

	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWA2", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")

<i>table</i>	(name="SSWA3", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table</i>	(name="SSWA4", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")

	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWB1", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWB2", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWB3", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWB4", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")

	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
	table dataset	(name="SSWB5", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
	table dataset	(name="SSWC1", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")

String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWC2", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWC3", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")

	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWC4", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWC5", description="null")
<i>Meta-data</i>		

	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWC6", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")

<i>table</i>	<i>(name="SSWD1", description="null")</i>
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table</i>	<i>(name="SSWD2", description="null")</i>
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")

	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWD3", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWD4", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWD6", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>String-Parameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWD7", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>String-Parameter</i>	channelName (description="Channel name", quantity="deg")

	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
	table	(name="SSWE1", description="null")
<i>dataset</i>		
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
	table	(name="SSWE2", description="null")
<i>dataset</i>		
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")

String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWE3", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWE4", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")

	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWE5", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWE6", description="null")
<i>Meta-data</i>		

	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWF1", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")

<i>table</i>	(name="SSWF2", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
DoubleId	opd (description="Optical Path Difference", quantity="cm")
DoubleId	signal (description="Signal", quantity="V")
IntId	mask (description="Mask", quantity="1")
<i>table</i>	(name="SSWF3", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
DoubleId	opd (description="Optical Path Difference", quantity="cm")

	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWF4", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
<i>Columns</i>		
	<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWF5", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")

	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWG1", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWG2", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWG3", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWG4", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")

<i>Columns</i>	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")

5.3.9. SPIRE Product Level 1 - Spectrometer Detector Interferogram

	<i>product (type="SDI", description="Spectrometer Detector Interferogram")</i>	
<i>Meta-data</i>		
String-Parameter	telescope (description="Name of telescope")	
String-Parameter	instrument (description="Instrument attached to this product")	
String-Parameter	subsystem (description="Instrument Subsystem")	
String-Parameter	source (description="TM source packet name")	
String-Parameter	creator (description="Generator of this product")	
String-Parameter	object (description="Target name")	
String-Parameter	observer (description="Observer name")	

ram- e- ter	
String- Pa- ram- e- ter	proposal (description="Proposal name")
Long- Pa- ram- e- ter	obsid (description="Observation identifier")
Long- Pa- ram- e- ter	odNumber (description="Operational day number")
DatePa- ram- e- ter	creationDate (description="Creation date of this product")
DatePa- ram- e- ter	startDate (description="Start date of this product")
DatePa- ram- e- ter	endDate (description="End date of this product")
String- Pa- ram- e- ter	aot (description="AOT Identifier")
String- Pa- ram- e- ter	aorLabel (description="AOR Label as entered in HSpot")
String- Pa- ram- e- ter	cusMode (description="CUS observation mode")
String- Pa- ram- e- ter	instMode (description="Instrument Mode")
String- Pa- ram-	obsMode (description="Observation mode name")

e- ter	
String- Pa- ram- e- ter	pointingMode (description="Pointing mode")
String- Pa- ram- e- ter	mapSampling (description="Spatial sampling of map")
String- Pa- ram- e- ter	biasMode (description="Bias mode")
Long- Pa- ram- e- ter	jiggId (description="Jiggle ID")
Long- Pa- ram- e- ter	pointNum (description="Pointing number")
Long- Pa- ram- e- ter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
Dou- blePa- ram- e- ter	onSourceTime (description="Total on-source integration time for this observation", quantity="s")
String- Pa- ram- e- ter	commandedResolution (description="Commanded Spectral Resolution", quantity="s")
Dou- blePa- ram- e- ter	biasFreq (description="Bias frequency", quantity="Hz")
String- Pa- ram- e- ter	elecSide (description="Electronic side", quantity="Hz")
String- Pa-	modelName (description="Model name attached to this product", quantity="Hz")

ram- e- ter	
String- Pa- ram- e- ter	formatVersion (description="Version of product format", quantity="Hz")
String- Pa- ram- e- ter	missionConfig (description="Mission configuration", quantity="Hz")
DoublePa- ram- e- ter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
String- Pa- ram- e- ter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoublePa- ram- e- ter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoublePa- ram- e- ter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoublePa- ram- e- ter	dec (description="Actual Declination of pointing", quantity="deg")
DoublePa- ram- e- ter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoublePa- ram- e- ter	posAngle (description="Position Angle of pointing", quantity="deg")
DoublePa- ram- e- ter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")

DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="km s-1")
StringParameter	calVersion (description="Calibration version", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")
StringParameter	processResolution (description="The resolution that is to be used or was used to process the data", quantity="km s-1")

e-ter	
Long-Parameter	numScans (description="Number of Scans", quantity="km s-1")
Long-Parameter	bbid (description="Building Block Identifier", quantity="km s-1")
String-Parameter	bbTypeName (description="Building block type name", quantity="km s-1")
String-Parameter	freqFrame (description="Standard of rest for spectral axis", quantity="km s-1")
String-Parameter	apodType (description="Type of Apodization applied", quantity="km s-1")
String-Parameter	apodName (description="Name of Apodization function applied", quantity="km s-1")
Boolean-Parameter	phaseCorrApplied (description="Phase correction has been applied", quantity="km s-1")
String-Parameter	signalTable (description="Name of the signal table", quantity="km s-1")
Long-Parameter	maskDead (description="Mask value for dead channel", quantity="km s-1")
Long-Parameter	maskMaster (description="Mask value for master bit", quantity="km s-1")
Long-Parameter	maskNoisy (description="Mask value for noisy channel", quantity="km s-1")

ram- e- ter	
Long- Pa- ram- e- ter	maskSlow (description="Mask value for slow channel", quantity="km s-1")
Boolean- Pa- ram- e- ter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="km s-1")
DoublePa- ram- e- ter	ratioTruncatedSSW (description="Maximum ratio of out of range values to total number of values in SSW data", quantity="km s-1")
DoublePa- ram- e- ter	ratioTruncatedSLW (description="Maximum ratio of out of range values to total number of values in SLW data", quantity="km s-1")
Long- Pa- ram- e- ter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="km s-1")
Long- Pa- ram- e- ter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="km s-1")
Long- Pa- ram- e- ter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="km s-1")
DoublePa- ram- e- ter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="km s-1")
Long- Pa- ram- e- ter	maskInvalidTime (description="Mask value for invalid sample time", quantity="km s-1")
DoublePa- ram- e- ter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")

DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
DoubleParameter	slwBiasAmpl (description="SLW bias amplitude", quantity="V")
DoubleParameter	sswBiasAmpl (description="SSW bias amplitude", quantity="V")
DoubleParameter	slwBiasPhase (description="SLW bias phase", quantity="rad")
DoubleParameter	sswBiasPhase (description="SSW bias phase", quantity="rad")
BooleanParameter	rcRollApp (description="RC roll correction applied", quantity="rad")
DoubleParameter	subkTempDrift (description="Drift measured by the SubK temperature probe", quantity="K")
LongParameter	maskGlitchL1Detected (description="Mask value for first level glitch detected", quantity="K")
LongParameter	maskGlitchL1NotRemoved (description="Mask value for first level glitch detected and not removed", quantity="K")
DoubleParameter	ratioSpecFirstLevelGlitchesSLW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the SLW array", quantity="K")

e- ter	
DoubleParameter	ratioSpecFirstLevelGlitchesSSW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the SSW array", quantity="K")
DoubleParameter	ratioSamplesOutOfCalibrationRangeSSW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="K")
LongParameter	numberBelowK3VoltageSSW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="K")
DoubleParameter	ratioSamplesOutOfCalibrationRangeSLW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="K")
LongParameter	numberBelowK3VoltageSLW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="K")
LongParameter	maskVoltageOol (description="Mask value for voltage out of fitted range", quantity="K")
LongParameter	maskVoltageBelowK3 (description="Mask value for voltage below K3", quantity="K")
LongParameter	maskNoRespData (description="Mask value for voltage out of fitted range and/or below K3", quantity="K")
BooleanParameter	SpecNonLinearityCorrectionDone (description="null", quantity="K")
StringParameter	respControlStamp (description="null", quantity="K")
LongParameter	numberClippedDetectorsSLW (description="Maximum number of detectors in SLW where at least one sample was flagged as clipped and could not be corrected", quantity="K")

ram- e- ter	
Long- Pa- ram- e- ter	numberClippedDetectorsSSW (description="Maximum number of detectors in SSW where at least one sample was flagged as clipped and could not be corrected", quantity="K")
DoublePa- ram- e- ter	scanExtrema (description="Maximum ratio of measured SMEC scan extrema to commanded scan extrema", quantity="K")
DoublePa- ram- e- ter	smecTemperature (description="Maximum difference between maximum and minimum SMEC temperatures (in K)", quantity="K")
Long- Pa- ram- e- ter	missedFringes (description="Maximum number of missed optical encoder fringes", quantity="K")
DoublePa- ram- e- ter	stageSpeedAverage (description="Maximum ratio of the measured SMEC speed to the commanded SMEC speed", quantity="K")
DoublePa- ram- e- ter	stageSpeedDeviation (description="Maximum standard deviation of the SMEC speed (in micron/s)", quantity="K")
Long- Pa- ram- e- ter	smecOpenLoopCount (description="Number of housekeeping entries which indicate that the SMEC is not in closed loop", quantity="K")
DoublePa- ram- e- ter	ratioSpecSecondLevelGlitchesSSW (description="Maximum ratio of number of 2nd-level flagged samples over number of data samples in the detectors of the SSW array", quantity="K")
DoublePa- ram- e- ter	ratioSpecSecondLevelGlitchesSLW (description="Maximum ratio of number of 2nd-level flagged samples over number of data samples in the detectors of the SLW array", quantity="K")
DoublePa- ram- e- ter	residualPhaseSLW (description="Maximum phase within the phase correction limits (in units of degree) for SLW", quantity="K")

DoubleParameter	residualPhaseSSW (description="Maximum phase within the phase correction limits (in units of degree) for SSW", quantity="K")
DoubleParameter	outOfBandHighRatioSLW (description="Maximum ratio of the mean of the absolute flux between 1200 and 5996 GHz over the mean of the absolute flux within the band edges.", quantity="K")
DoubleParameter	outOfBandHighRatioSSW (description="Maximum ratio of the mean of the absolute flux between 1799 and 5996 GHz over the mean of the absolute flux within the band edges.", quantity="K")
DoubleParameter	outOfBandLowRatioSLW (description="Maximum ratio of the mean of the absolute flux between 0.03 and 360 GHz over the mean of the absolute flux within the band edges.", quantity="K")
DoubleParameter	outOfBandLowRatioSSW (description="Maximum ratio of the mean of the absolute flux between 0.03 and 900 GHz over the mean of the absolute flux within the band edges.", quantity="K")
DoubleParameter	deltaSCalTemp (description="SCal maximum temperature variation (in K)", quantity="K")
DoubleParameter	deltaSCal2Temp (description="SCal2 maximum temperature variation (in K)", quantity="K")
DoubleParameter	deltaSCal4Temp (description="SCal4 maximum temperature variation (in K)", quantity="K")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="K")
Columns	
composite	(description="null")
Metadata	
Long-Parameter	count (description="Set number")

	parameter	
	Long-Parameter	scanNumber (description="Scan number")
	String-Parameter	scanDir (description="Scan direction")
	DateParameter	scanStartDate (description="Start date of the FTS scan")
	DateParameter	scanEndDate (description="End date of the FTS scan")
<i>Columns</i>		
<i>table dataset</i>		(name="SLWA1", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	String-Parameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SLWA2", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")

	parameter	
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SLWA3", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SLWB1", description="null")

<i>Meta-</i>	
<i>data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
DoubleId	opd (description="Optical Path Difference", quantity="cm")
DoubleId	signal (description="Signal", quantity="V")
IntId	mask (description="Mask", quantity="1")
<i>table</i>	(name="SLWB2", description="null")
<i>dataset</i>	
<i>Meta-</i>	
<i>data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
DoubleId	opd (description="Optical Path Difference", quantity="cm")
DoubleId	signal (description="Signal", quantity="V")
IntId	mask (description="Mask", quantity="1")

<i>table</i>	<i>(name="SLWB3", description="null")</i>
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table</i>	<i>(name="SLWB4", description="null")</i>
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")

<i>dataset</i>	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
	<i>table</i>	(name="SLWC1", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
	<i>Columns</i>	
	<i>dataset</i>	<i>DoubleId</i>
<i>DoubleId</i>		signal (description="Signal", quantity="V")
<i>IntId</i>		mask (description="Mask", quantity="1")
<i>table</i>		(name="SLWC2", description="null")
<i>Meta-data</i>		
<i>DoubleParameter</i>		dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>		ra (description="Ra pointing for this channel", quantity="deg")
<i>StringParameter</i>		channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>		qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SLWC3", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SLWC4", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")

	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
	table dataset	(name="SLWC5", description="null")
	Metadata	
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
	table dataset	(name="SLWD1", description="null")
	Metadata	
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")

String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SLWD2", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SLWD3", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")

	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SLWD4", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SLWE1", description="null")
<i>Meta-data</i>		

	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SLWE2", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")

<i>table</i>	(name="SLWE3", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
DoubleId	opd (description="Optical Path Difference", quantity="cm")
DoubleId	signal (description="Signal", quantity="V")
IntId	mask (description="Mask", quantity="1")
<i>table</i>	(name="SSWA1", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
DoubleId	opd (description="Optical Path Difference", quantity="cm")

	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWA2", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWA3", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWA4", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWB1", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")

	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Columns		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
dataset	table	(name="SSWB2", description="null")
Meta-data		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Columns		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
dataset	table	(name="SSWB3", description="null")
Meta-data		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")

String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWB4", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWB5", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")

	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWC1", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWC2", description="null")
<i>Meta-data</i>		

	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWC3", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")

<i>table</i>	(name="SSWC4", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
DoubleId	opd (description="Optical Path Difference", quantity="cm")
DoubleId	signal (description="Signal", quantity="V")
IntId	mask (description="Mask", quantity="1")
<i>table</i>	(name="SSWC5", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
DoubleId	opd (description="Optical Path Difference", quantity="cm")

	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWC6", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWD1", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWD2", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWD3", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")

	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
	table dataset	(name="SSWD4", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
	table dataset	(name="SSWD6", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")

String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWD7", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWE1", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")

	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWE2", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWE3", description="null")
<i>Meta-data</i>		

	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWE4", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")

<i>table</i>	<i>(name="SSWE5", description="null")</i>
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table</i>	<i>(name="SSWE6", description="null")</i>
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")

	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWF1", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWF2", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWF3", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWF4", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")

<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table</i>	(name="SSWF5", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table</i>	(name="SSWG1", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")

	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWG2", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWG3", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")

String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Columns	
DoubleId	opd (description="Optical Path Difference", quantity="cm")
DoubleId	signal (description="Signal", quantity="V")
IntId	mask (description="Mask", quantity="1")
table dataset	(name="SSWG4", description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Columns	
DoubleId	opd (description="Optical Path Difference", quantity="cm")
DoubleId	signal (description="Signal", quantity="V")
IntId	mask (description="Mask", quantity="1")

5.3.10. SPIRE Product Level 1 - Spectrometer Detector Interferogram

Meta-data	product (type="SDI", description="Spectrometer Detector Interferogram")
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String- Pa- ram- e- ter	telescope (description="Name of telescope")
String- Pa- ram- e- ter	instrument (description="Instrument attached to this product")
String- Pa- ram- e- ter	subsystem (description="Instrument Subsystem")
String- Pa- ram- e- ter	source (description="TM source packet name")
String- Pa- ram- e- ter	creator (description="Generator of this product")
String- Pa- ram- e- ter	object (description="Target name")
String- Pa- ram- e- ter	observer (description="Observer name")
String- Pa- ram- e- ter	proposal (description="Proposal name")
Long- Pa- ram- e- ter	obsid (description="Observation identifier")
Long- Pa- ram- e- ter	odNumber (description="Operational day number")
DatePa- ram- e- ter	creationDate (description="Creation date of this product")

DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	jiggId (description="Jiggle ID")

Long-Parameter	pointNum (description="Pointing number")
Long-Parameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
DoubleParameter	onSourceTime (description="Total on-source integration time for this observation", quantity="s")
String-Parameter	commandedResolution (description="Commanded Spectral Resolution", quantity="s")
DoubleParameter	biasFreq (description="Bias frequency", quantity="Hz")
String-Parameter	elecSide (description="Electronic side", quantity="Hz")
String-Parameter	modelName (description="Model name attached to this product", quantity="Hz")
String-Parameter	formatVersion (description="Version of product format", quantity="Hz")
String-Parameter	missionConfig (description="Mission configuration", quantity="Hz")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
String-Parameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")

e- ter	
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")

ram- e- ter	
String- Pa- ram- e- ter	type (description="Product Type Identification", quantity="km s-1")
String- Pa- ram- e- ter	description (description="Name of this product", quantity="km s-1")
String- Pa- ram- e- ter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="km s-1")
String- Pa- ram- e- ter	calVersion (description="Calibration version", quantity="km s-1")
String- Pa- ram- e- ter	level (description="The level of the product", quantity="km s-1")
String- Pa- ram- e- ter	processResolution (description="The resolution that is to be used or was used to process the data", quantity="km s-1")
Long- Pa- ram- e- ter	numScans (description="Number of Scans", quantity="km s-1")
Long- Pa- ram- e- ter	bbid (description="Building Block Identifier", quantity="km s-1")
String- Pa- ram- e- ter	bbTypeName (description="Building block type name", quantity="km s-1")
String- Pa- ram- e- ter	freqFrame (description="Standard of rest for spectral axis", quantity="km s-1")

String-Parameter	apodType (description="Type of Apodization applied", quantity="km s-1")
String-Parameter	apodName (description="Name of Apodization function applied", quantity="km s-1")
Boolean-Parameter	phaseCorrApplied (description="Phase correction has been applied", quantity="km s-1")
String-Parameter	signalTable (description="Name of the signal table", quantity="km s-1")
Long-Parameter	maskDead (description="Mask value for dead channel", quantity="km s-1")
Long-Parameter	maskMaster (description="Mask value for master bit", quantity="km s-1")
Long-Parameter	maskNoisy (description="Mask value for noisy channel", quantity="km s-1")
Long-Parameter	maskSlow (description="Mask value for slow channel", quantity="km s-1")
Boolean-Parameter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="km s-1")
DoubleParameter	ratioTruncatedSSW (description="Maximum ratio of out of range values to total number of values in SSW data", quantity="km s-1")
DoubleParameter	ratioTruncatedSLW (description="Maximum ratio of out of range values to total number of values in SLW data", quantity="km s-1")

e- ter	
Long- Pa- ram- e- ter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="km s-1")
Long- Pa- ram- e- ter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="km s-1")
Long- Pa- ram- e- ter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="km s-1")
Dou- blePa- ram- e- ter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="km s-1")
Long- Pa- ram- e- ter	maskInvalidTime (description="Mask value for invalid sample time", quantity="km s-1")
Dou- blePa- ram- e- ter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
Dou- blePa- ram- e- ter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
Boolea- nPa- ram- e- ter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
Dou- blePa- ram- e- ter	slwBiasAmpl (description="SLW bias amplitude", quantity="V")
Dou- blePa- ram- e- ter	sswBiasAmpl (description="SSW bias amplitude", quantity="V")
Dou- blePa-	slwBiasPhase (description="SLW bias phase", quantity="rad")

ram- e- ter	
DoublePa- ram- e- ter	sswBiasPhase (description="SSW bias phase", quantity="rad")
Boolean- Pa- ram- e- ter	rcRollApp (description="RC roll correction applied", quantity="rad")
DoublePa- ram- e- ter	subkTempDrift (description="Drift measured by the SubK temperature probe", quantity="K")
Long- Pa- ram- e- ter	maskGlitchL1Detected (description="Mask value for first level glitch detected", quantity="K")
Long- Pa- ram- e- ter	maskGlitchL1NotRemoved (description="Mask value for first level glitch detected and not removed", quantity="K")
DoublePa- ram- e- ter	ratioSpecFirstLevelGlitchesSLW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the SLW array", quantity="K")
DoublePa- ram- e- ter	ratioSpecFirstLevelGlitchesSSW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the SSW array", quantity="K")
DoublePa- ram- e- ter	ratioSamplesOutOfCalibrationRangeSSW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="K")
Long- Pa- ram- e- ter	numberBelowK3VoltageSSW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="K")
DoublePa- ram- e- ter	ratioSamplesOutOfCalibrationRangeSLW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="K")

Long-Parameter	numberBelowK3VoltageSLW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="K")
Long-Parameter	maskVoltageOol (description="Mask value for voltage out of fitted range", quantity="K")
Long-Parameter	maskVoltageBelowK3 (description="Mask value for voltage below K3", quantity="K")
Long-Parameter	maskNoRespData (description="Mask value for voltage out of fitted range and/or below K3", quantity="K")
Boolean-Parameter	SpecNonLinearityCorrectionDone (description="null", quantity="K")
String-Parameter	respControlStamp (description="null", quantity="K")
Long-Parameter	numberClippedDetectorsSLW (description="Maximum number of detectors in SLW where at least one sample was flagged as clipped and could not be corrected", quantity="K")
Long-Parameter	numberClippedDetectorsSSW (description="Maximum number of detectors in SSW where at least one sample was flagged as clipped and could not be corrected", quantity="K")
Double-Parameter	scanExtrema (description="Maximum ratio of measured SMEC scan extrema to commanded scan extrema", quantity="K")
Double-Parameter	smecTemperature (description="Maximum difference between maximum and minimum SMEC temperatures (in K)", quantity="K")
Long-Parameter	missedFringes (description="Maximum number of missed optical encoder fringes", quantity="K")

e- ter	
DoubleParameter	stageSpeedAverage (description="Maximum ratio of the measured SMEC speed to the commanded SMEC speed", quantity="K")
DoubleParameter	stageSpeedDeviation (description="Maximum standard deviation of the SMEC speed (in micron/s)", quantity="K")
LongParameter	smecOpenLoopCount (description="Number of housekeeping entries which indicate that the SMEC is not in closed loop", quantity="K")
DoubleParameter	ratioSpecSecondLevelGlitchesSSW (description="Maximum ratio of number of 2nd-level flagged samples over number of data samples in the detectors of the SSW array", quantity="K")
DoubleParameter	ratioSpecSecondLevelGlitchesSLW (description="Maximum ratio of number of 2nd-level flagged samples over number of data samples in the detectors of the SLW array", quantity="K")
DoubleParameter	residualPhaseSLW (description="Maximum phase within the phase correction limits (in units of degree) for SLW", quantity="K")
DoubleParameter	residualPhaseSSW (description="Maximum phase within the phase correction limits (in units of degree) for SSW", quantity="K")
DoubleParameter	outOfBandHighRatioSLW (description="Maximum ratio of the mean of the absolute flux between 1200 and 5996 GHz over the mean of the absolute flux within the band edges.", quantity="K")
DoubleParameter	outOfBandHighRatioSSW (description="Maximum ratio of the mean of the absolute flux between 1799 and 5996 GHz over the mean of the absolute flux within the band edges.", quantity="K")
DoubleParameter	outOfBandLowRatioSLW (description="Maximum ratio of the mean of the absolute flux between 0.03 and 360 GHz over the mean of the absolute flux within the band edges.", quantity="K")

DoubleParameter	outOfBandLowRatioSSW (description="Maximum ratio of the mean of the absolute flux between 0.03 and 900 GHz over the mean of the absolute flux within the band edges.", quantity="K")
DoubleParameter	deltaSCalTemp (description="SCal maximum temperature variation (in K)", quantity="K")
DoubleParameter	deltaSCal2Temp (description="SCal2 maximum temperature variation (in K)", quantity="K")
DoubleParameter	deltaSCal4Temp (description="SCal4 maximum temperature variation (in K)", quantity="K")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="K")
Columns	
composite	(description="null")
Metadata	
LongParameter	count (description="Set number")
LongParameter	scanNumber (description="Scan number")
StringParameter	scanDir (description="Scan direction")
DateParameter	scanStartDate (description="Start date of the FTS scan")
DateParameter	scanEndDate (description="End date of the FTS scan")
Columns	

<i>table</i>	<i>(name="SLWA1", description="null")</i>
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table</i>	<i>(name="SLWA2", description="null")</i>
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")

<i>dataset</i>	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
	<i>table</i>	(name="SLWA3", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
	<i>Columns</i>	
	<i>dataset</i>	<i>DoubleId</i>
<i>DoubleId</i>		signal (description="Signal", quantity="V")
<i>IntId</i>		mask (description="Mask", quantity="1")
<i>table</i>		(name="SLWB1", description="null")
<i>Meta-data</i>		
<i>DoubleParameter</i>		dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>		ra (description="Ra pointing for this channel", quantity="deg")
<i>StringParameter</i>		channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>		qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SLWB2", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SLWB3", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")

	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
	table	(name="SLWB4", description="null")
<i>dataset</i>		
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
	table	(name="SLWCI", description="null")
<i>dataset</i>		
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")

String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table</i>	(name="SLWC2", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table</i>	(name="SLWC3", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")

	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>dataset</i>	table	(name="SLWC4", description="null")
	meta-data	
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>dataset</i>	table	(name="SLWC5", description="null")
	meta-data	

	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SLWD1", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")

<i>table</i>	<i>(name="SLWD2", description="null")</i>
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table</i>	<i>(name="SLWD3", description="null")</i>
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")

	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SLWD4", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
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	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SLWE1", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SLWE2", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SLWE3", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")

	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
	table	(name="SSWA1", description="null")
<i>dataset</i>		
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
	table	(name="SSWA2", description="null")
<i>dataset</i>		
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")

String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Columns	
DoubleId	opd (description="Optical Path Difference", quantity="cm")
DoubleId	signal (description="Signal", quantity="V")
IntId	mask (description="Mask", quantity="1")
table dataset	(name="SSWA3", description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Columns	
DoubleId	opd (description="Optical Path Difference", quantity="cm")
DoubleId	signal (description="Signal", quantity="V")
IntId	mask (description="Mask", quantity="1")
table dataset	(name="SSWA4", description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")

	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>dataset</i>	table	(name="SSWB1", description="null")
	Meta-data	
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>dataset</i>	table	(name="SSWB2", description="null")
	Meta-data	

	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWB3", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")

<i>table</i>	<i>(name="SSWB4", description="null")</i>
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table</i>	<i>(name="SSWB5", description="null")</i>
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")

	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWC1", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWC2", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWC3", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>String-Parameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWC4", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>String-Parameter</i>	channelName (description="Channel name", quantity="deg")

	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
	table	(name="SSWC5", description="null")
<i>dataset</i>		
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
	table	(name="SSWC6", description="null")
<i>dataset</i>		
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")

String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Columns	
DoubleId	opd (description="Optical Path Difference", quantity="cm")
DoubleId	signal (description="Signal", quantity="V")
IntId	mask (description="Mask", quantity="1")
table dataset	(name="SSWD2", description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Columns	
DoubleId	opd (description="Optical Path Difference", quantity="cm")
DoubleId	signal (description="Signal", quantity="V")
IntId	mask (description="Mask", quantity="1")
table dataset	(name="SSWD3", description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")

	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWD4", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWD6", description="null")
<i>Meta-data</i>		

	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWD7", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")

<i>table</i>	(name="SSWE1", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
DoubleId	opd (description="Optical Path Difference", quantity="cm")
DoubleId	signal (description="Signal", quantity="V")
IntId	mask (description="Mask", quantity="1")
<i>table</i>	(name="SSWE2", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
DoubleId	opd (description="Optical Path Difference", quantity="cm")

<i>dataset</i>	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
	<i>table</i>	(name="SSWE3", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
	<i>Columns</i>	
	<i>dataset</i>	<i>DoubleId</i>
<i>DoubleId</i>		signal (description="Signal", quantity="V")
<i>IntId</i>		mask (description="Mask", quantity="1")
<i>table</i>		(name="SSWE4", description="null")
<i>Meta-data</i>		
<i>DoubleParameter</i>		dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>		ra (description="Ra pointing for this channel", quantity="deg")
<i>StringParameter</i>		channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>		qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWE5", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWE6", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")

	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
	table	(name="SSWF1", description="null")
<i>dataset</i>		
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
	table	(name="SSWF2", description="null")
<i>dataset</i>		
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")

String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Columns	
DoubleId	opd (description="Optical Path Difference", quantity="cm")
DoubleId	signal (description="Signal", quantity="V")
IntId	mask (description="Mask", quantity="1")
table dataset	(name="SSWF3", description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Columns	
DoubleId	opd (description="Optical Path Difference", quantity="cm")
DoubleId	signal (description="Signal", quantity="V")
IntId	mask (description="Mask", quantity="1")
table dataset	(name="SSWF4", description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")

	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWF5", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWG1", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")

	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>dataset</i>	table	(name="SSWG2", description="null")
	meta-data	
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>dataset</i>	table	(name="SSWG3", description="null")
	meta-data	

	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Columns		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
table dataset		(name="SSWG4", description="null")
Meta-data		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Columns		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")

5.3.11. SPIRE Product Level 1 - Spectrometer Detector Interferogram

<i>product (type="SDI", description="Spectrometer Detector Interferogram")</i>	
Meta- da- ta	
String- Pa- ram- e- ter	telescope (description="Name of telescope")
String- Pa- ram- e- ter	instrument (description="Instrument attached to this product")
String- Pa- ram- e- ter	subsystem (description="Instrument Subsystem")
String- Pa- ram- e- ter	source (description="TM source packet name")
String- Pa- ram- e- ter	creator (description="Generator of this product")
String- Pa- ram- e- ter	object (description="Target name")
String- Pa- ram- e- ter	observer (description="Observer name")
String- Pa- ram- e- ter	proposal (description="Proposal name")
Long- Pa- ram- e- ter	obsid (description="Observation identifier")

Long-Parameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
String-Parameter	aot (description="AOT Identifier")
String-Parameter	aorLabel (description="AOR Label as entered in HSpot")
String-Parameter	cusMode (description="CUS observation mode")
String-Parameter	instMode (description="Instrument Mode")
String-Parameter	obsMode (description="Observation mode name")
String-Parameter	pointingMode (description="Pointing mode")
String-Parameter	mapSampling (description="Spatial sampling of map")

String- Pa- ram- e- ter	biasMode (description="Bias mode")
Long- Pa- ram- e- ter	jiggId (description="Jiggle ID")
Long- Pa- ram- e- ter	pointNum (description="Pointing number")
Long- Pa- ram- e- ter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
DoublePa- ram- e- ter	onSourceTime (description="Total on-source integration time for this observation", quantity="s")
String- Pa- ram- e- ter	commandedResolution (description="Commanded Spectral Resolution", quantity="s")
DoublePa- ram- e- ter	biasFreq (description="Bias frequency", quantity="Hz")
String- Pa- ram- e- ter	elecSide (description="Electronic side", quantity="Hz")
String- Pa- ram- e- ter	modelName (description="Model name attached to this product", quantity="Hz")
String- Pa- ram- e- ter	formatVersion (description="Version of product format", quantity="Hz")
String- Pa- ram-	missionConfig (description="Mission configuration", quantity="Hz")

e- ter	
DoublePa- ram- e- ter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
String- Pa- ram- e- ter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoublePa- ram- e- ter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoublePa- ram- e- ter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoublePa- ram- e- ter	dec (description="Actual Declination of pointing", quantity="deg")
DoublePa- ram- e- ter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoublePa- ram- e- ter	posAngle (description="Position Angle of pointing", quantity="deg")
DoublePa- ram- e- ter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoublePa- ram- e- ter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoublePa- ram- e- ter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
String- Pa-	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")

ram- e- ter	
String- Pa- ram- e- ter	origin (description="Site that created the product", quantity="km s-1")
String- Pa- ram- e- ter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
String- Pa- ram- e- ter	type (description="Product Type Identification", quantity="km s-1")
String- Pa- ram- e- ter	description (description="Name of this product", quantity="km s-1")
String- Pa- ram- e- ter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="km s-1")
String- Pa- ram- e- ter	calVersion (description="Calibration version", quantity="km s-1")
String- Pa- ram- e- ter	level (description="The level of the product", quantity="km s-1")
String- Pa- ram- e- ter	processResolution (description="The resolution that is to be used or was used to process the data", quantity="km s-1")
Long- Pa- ram- e- ter	numScans (description="Number of Scans", quantity="km s-1")
Long- Pa- ram- e- ter	bbid (description="Building Block Identifier", quantity="km s-1")

String-Parameter	bbTypeName (description="Building block type name", quantity="km s-1")
String-Parameter	freqFrame (description="Standard of rest for spectral axis", quantity="km s-1")
String-Parameter	apodType (description="Type of Apodization applied", quantity="km s-1")
String-Parameter	apodName (description="Name of Apodization function applied", quantity="km s-1")
Boolean-Parameter	phaseCorrApplied (description="Phase correction has been applied", quantity="km s-1")
String-Parameter	signalTable (description="Name of the signal table", quantity="km s-1")
Long-Parameter	maskDead (description="Mask value for dead channel", quantity="km s-1")
Long-Parameter	maskMaster (description="Mask value for master bit", quantity="km s-1")
Long-Parameter	maskNoisy (description="Mask value for noisy channel", quantity="km s-1")
Long-Parameter	maskSlow (description="Mask value for slow channel", quantity="km s-1")
Boolean-Parameter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="km s-1")

e- ter	
DoubleParameter	ratioTruncatedSSW (description="Maximum ratio of out of range values to total number of values in SSW data", quantity="km s-1")
DoubleParameter	ratioTruncatedSLW (description="Maximum ratio of out of range values to total number of values in SLW data", quantity="km s-1")
LongParameter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="km s-1")
LongParameter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="km s-1")
LongParameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="km s-1")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="km s-1")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="km s-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
DoubleParameter	slwBiasAmpl (description="SLW bias amplitude", quantity="V")

ram- e- ter	
DoublePa- ram- e- ter	sswBiasAmpl (description="SSW bias amplitude", quantity="V")
DoublePa- ram- e- ter	slwBiasPhase (description="SLW bias phase", quantity="rad")
DoublePa- ram- e- ter	sswBiasPhase (description="SSW bias phase", quantity="rad")
Boolean- Pa- ram- e- ter	rcRollApp (description="RC roll correction applied", quantity="rad")
DoublePa- ram- e- ter	subkTempDrift (description="Drift measured by the SubK temperature probe", quantity="K")
Long- Pa- ram- e- ter	maskGlitchL1Detected (description="Mask value for first level glitch detected", quantity="K")
Long- Pa- ram- e- ter	maskGlitchL1NotRemoved (description="Mask value for first level glitch detected and not removed", quantity="K")
DoublePa- ram- e- ter	ratioSpecFirstLevelGlitchesSLW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the SLW array", quantity="K")
DoublePa- ram- e- ter	ratioSpecFirstLevelGlitchesSSW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the SSW array", quantity="K")
DoublePa- ram- e- ter	ratioSamplesOutOfCalibrationRangeSSW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="K")

Long-Parameter	numberBelowK3VoltageSSW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="K")
DoubleParameter	ratioSamplesOutOfCalibrationRangeSLW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="K")
Long-Parameter	numberBelowK3VoltageSLW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="K")
Long-Parameter	maskVoltageOol (description="Mask value for voltage out of fitted range", quantity="K")
Long-Parameter	maskVoltageBelowK3 (description="Mask value for voltage below K3", quantity="K")
Long-Parameter	maskNoRespData (description="Mask value for voltage out of fitted range and/or below K3", quantity="K")
Boolean-Parameter	SpecNonLinearityCorrectionDone (description="null", quantity="K")
String-Parameter	respControlStamp (description="null", quantity="K")
Long-Parameter	numberClippedDetectorsSLW (description="Maximum number of detectors in SLW where at least one sample was flagged as clipped and could not be corrected", quantity="K")
Long-Parameter	numberClippedDetectorsSSW (description="Maximum number of detectors in SSW where at least one sample was flagged as clipped and could not be corrected", quantity="K")
DoubleParameter	scanExtrema (description="Maximum ratio of measured SMEC scan extrema to commanded scan extrema", quantity="K")

e- ter	
DoubleParameter	smecTemperature (description="Maximum difference between maximum and minimum SMEC temperatures (in K)", quantity="K")
LongParameter	missedFringes (description="Maximum number of missed optical encoder fringes", quantity="K")
DoubleParameter	stageSpeedAverage (description="Maximum ratio of the measured SMEC speed to the commanded SMEC speed", quantity="K")
DoubleParameter	stageSpeedDeviation (description="Maximum standard deviation of the SMEC speed (in micron/s)", quantity="K")
LongParameter	smecOpenLoopCount (description="Number of housekeeping entries which indicate that the SMEC is not in closed loop", quantity="K")
DoubleParameter	ratioSpecSecondLevelGlitchesSSW (description="Maximum ratio of number of 2nd-level flagged samples over number of data samples in the detectors of the SSW array", quantity="K")
DoubleParameter	ratioSpecSecondLevelGlitchesSLW (description="Maximum ratio of number of 2nd-level flagged samples over number of data samples in the detectors of the SLW array", quantity="K")
DoubleParameter	residualPhaseSLW (description="Maximum phase within the phase correction limits (in units of degree) for SLW", quantity="K")
DoubleParameter	residualPhaseSSW (description="Maximum phase within the phase correction limits (in units of degree) for SSW", quantity="K")
DoubleParameter	outOfBandHighRatioSLW (description="Maximum ratio of the mean of the absolute flux between 1200 and 5996 GHz over the mean of the absolute flux within the band edges.", quantity="K")

DoubleParameter	outOfBandHighRatioSSW (description="Maximum ratio of the mean of the absolute flux between 1799 and 5996 GHz over the mean of the absolute flux within the band edges.", quantity="K")
DoubleParameter	outOfBandLowRatioSLW (description="Maximum ratio of the mean of the absolute flux between 0.03 and 360 GHz over the mean of the absolute flux within the band edges.", quantity="K")
DoubleParameter	outOfBandLowRatioSSW (description="Maximum ratio of the mean of the absolute flux between 0.03 and 900 GHz over the mean of the absolute flux within the band edges.", quantity="K")
DoubleParameter	deltaSCalTemp (description="SCal maximum temperature variation (in K)", quantity="K")
DoubleParameter	deltaSCal2Temp (description="SCal2 maximum temperature variation (in K)", quantity="K")
DoubleParameter	deltaSCal4Temp (description="SCal4 maximum temperature variation (in K)", quantity="K")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="K")
Columns	
composite	(description="null")
Metadata	
LongParameter	count (description="Set number")
LongParameter	scanNumber (description="Scan number")
StringParameter	scanDir (description="Scan direction")

DateParameter	scanStartDate (description="Start date of the FTS scan")
DateParameter	scanEndDate (description="End date of the FTS scan")
Columns	
table dataset	(name="SLWA1", description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Columns	
DoubleId	opd (description="Optical Path Difference", quantity="cm")
DoubleId	signal (description="Signal", quantity="V")
IntId	mask (description="Mask", quantity="1")
table dataset	(name="SLWA2", description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")

	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Columns		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
table dataset		(name="SLWA3", description="null")
Meta-data		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Columns		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
table dataset		(name="SLWB1", description="null")
Meta-data		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")

String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Columns	
DoubleId	opd (description="Optical Path Difference", quantity="cm")
DoubleId	signal (description="Signal", quantity="V")
IntId	mask (description="Mask", quantity="1")
table dataset	(name="SLWB2", description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Columns	
DoubleId	opd (description="Optical Path Difference", quantity="cm")
DoubleId	signal (description="Signal", quantity="V")
IntId	mask (description="Mask", quantity="1")
table dataset	(name="SLWB3", description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")

	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SLWB4", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SLWC1", description="null")
<i>Meta-data</i>		

	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SLWC2", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")

<i>table</i>	(name="SLWC3", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
DoubleId	opd (description="Optical Path Difference", quantity="cm")
DoubleId	signal (description="Signal", quantity="V")
IntId	mask (description="Mask", quantity="1")
<i>table</i>	(name="SLWC4", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
DoubleId	opd (description="Optical Path Difference", quantity="cm")

	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SLWC5", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SLWD1", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table</i>	(name="SLWD2", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table</i>	(name="SLWD3", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")

	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
	table	(name="SLWD4", description="null")
<i>dataset</i>		
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
	table	(name="SLWE1", description="null")
<i>dataset</i>		
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")

String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Columns	
DoubleId	opd (description="Optical Path Difference", quantity="cm")
DoubleId	signal (description="Signal", quantity="V")
IntId	mask (description="Mask", quantity="1")
table dataset	(name="SLWE2", description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Columns	
DoubleId	opd (description="Optical Path Difference", quantity="cm")
DoubleId	signal (description="Signal", quantity="V")
IntId	mask (description="Mask", quantity="1")
table dataset	(name="SLWE3", description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")

	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
	table	(name="SSWA1", description="null")
<i>dataset</i>		
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
	table	(name="SSWA2", description="null")
<i>dataset</i>		
<i>Meta-data</i>		

	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWA3", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")

<i>table</i>	(name="SSWA4", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table</i>	(name="SSWB1", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")

	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWB2", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWB3", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWB4", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWB5", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")

	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Columns		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
table dataset		(name="SSWC1", description="null")
Meta-data		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Columns		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
table dataset		(name="SSWC2", description="null")
Meta-data		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")

String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Columns	
DoubleId	opd (description="Optical Path Difference", quantity="cm")
DoubleId	signal (description="Signal", quantity="V")
IntId	mask (description="Mask", quantity="1")
table dataset	(name="SSWC3", description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Columns	
DoubleId	opd (description="Optical Path Difference", quantity="cm")
DoubleId	signal (description="Signal", quantity="V")
IntId	mask (description="Mask", quantity="1")
table dataset	(name="SSWC4", description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")

	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>dataset</i>	table	(name="SSWC5", description="null")
	Metadata	
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>dataset</i>	table	(name="SSWC6", description="null")
	Metadata	

	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWD2", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")

<i>table</i>	(name="SSWD3", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
DoubleId	opd (description="Optical Path Difference", quantity="cm")
DoubleId	signal (description="Signal", quantity="V")
IntId	mask (description="Mask", quantity="1")
<i>table</i>	(name="SSWD4", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
DoubleId	opd (description="Optical Path Difference", quantity="cm")

	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWD6", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
	<i>String-Parameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWD7", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
	<i>String-Parameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWE1", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWE2", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")

	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Columns		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
table dataset		(name="SSWE3", description="null")
Meta-data		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Columns		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
table dataset		(name="SSWE4", description="null")
Meta-data		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")

String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table</i>	(name="SSWE5", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table</i>	(name="SSWE6", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")

	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>dataset</i>	table	(name="SSWF1", description="null")
	Metadata	
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>dataset</i>	table	(name="SSWF2", description="null")
	Metadata	

	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWF4", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWF5", description="null")
<i>Meta-data</i>		

	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWG1", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")

<i>table</i>	<i>(name="SSWG2", description="null")</i>
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table</i>	<i>(name="SSWG3", description="null")</i>
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")

<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table</i>	(name="SSWG4", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")

5.3.12. SPIRE Product Level 1 - Spectrometer Detector Interferogram

	<i>product</i> (type="SDI", description="Spectrometer Detector Interferogram")
<i>Meta-data</i>	
<i>StringParameter</i>	telescope (description="Name of telescope")
<i>StringParameter</i>	instrument (description="Instrument attached to this product")

String- Pa- ram- e- ter	subsystem (description="Instrument Subsystem")
String- Pa- ram- e- ter	source (description="TM source packet name")
String- Pa- ram- e- ter	creator (description="Generator of this product")
String- Pa- ram- e- ter	object (description="Target name")
String- Pa- ram- e- ter	observer (description="Observer name")
String- Pa- ram- e- ter	proposal (description="Proposal name")
Long- Pa- ram- e- ter	obsid (description="Observation identifier")
Long- Pa- ram- e- ter	odNumber (description="Operational day number")
DatePa- ram- e- ter	creationDate (description="Creation date of this product")
DatePa- ram- e- ter	startDate (description="Start date of this product")
DatePa- ram- e- ter	endDate (description="End date of this product")

String- Pa- ram- e- ter	aot (description="AOT Identifier")
String- Pa- ram- e- ter	aorLabel (description="AOR Label as entered in HSpot")
String- Pa- ram- e- ter	cusMode (description="CUS observation mode")
String- Pa- ram- e- ter	instMode (description="Instrument Mode")
String- Pa- ram- e- ter	obsMode (description="Observation mode name")
String- Pa- ram- e- ter	pointingMode (description="Pointing mode")
String- Pa- ram- e- ter	mapSampling (description="Spatial sampling of map")
String- Pa- ram- e- ter	biasMode (description="Bias mode")
Long- Pa- ram- e- ter	jiggId (description="Jiggle ID")
Long- Pa- ram- e- ter	pointNum (description="Pointing number")
Long- Pa- ram-	numRepetitions (description="Number of times to repeat the basic unit of the observation")

e- ter	
DoubleParameter	onSourceTime (description="Total on-source integration time", quantity="s")
StringParameter	commandedResolution (description="Commanded Spectral Resolution", quantity="s")
DoubleParameter	biasFreq (description="Bias frequency", quantity="Hz")
StringParameter	elecSide (description="Electronic side", quantity="Hz")
StringParameter	modelName (description="Model name attached to this product", quantity="Hz")
StringParameter	formatVersion (description="Version of product format", quantity="Hz")
StringParameter	missionConfig (description="Mission configuration", quantity="Hz")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")

ram- e- ter	
DoublePa- ram- e- ter	dec (description="Actual Declination of pointing", quantity="deg")
DoublePa- ram- e- ter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoublePa- ram- e- ter	posAngle (description="Position Angle of pointing", quantity="deg")
DoublePa- ram- e- ter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoublePa- ram- e- ter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoublePa- ram- e- ter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
String- Pa- ram- e- ter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
String- Pa- ram- e- ter	origin (description="Site that created the product", quantity="km s-1")
String- Pa- ram- e- ter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
String- Pa- ram- e- ter	type (description="Product Type Identification", quantity="km s-1")

String-Parameter	description (description="Name of this product", quantity="km s-1")
String-Parameter	engConvCalVersion (description="Version of the calibration tree used in the engineering conversion", quantity="km s-1")
String-Parameter	calVersion (description="Calibration version", quantity="km s-1")
String-Parameter	level (description="The level of the product", quantity="km s-1")
String-Parameter	processResolution (description="The resolution used to process the data", quantity="km s-1")
Long-Parameter	numScans (description="Number of Scans", quantity="km s-1")
Long-Parameter	bbid (description="Building Block Identifier", quantity="km s-1")
String-Parameter	bbTypeName (description="Building block type name", quantity="km s-1")
String-Parameter	freqFrame (description="Standard of rest for spectral axis", quantity="km s-1")
String-Parameter	apodType (description="Type of Apodization applied", quantity="km s-1")
String-Parameter	apodName (description="Name of Apodization function applied", quantity="km s-1")

e- ter	
Boolean- Pa- ram- e- ter	phaseCorrApplied (description="Phase correction has been applied", quantity="km s-1")
String- Pa- ram- e- ter	signalTable (description="Name of the signal table", quantity="km s-1")
Long- Pa- ram- e- ter	maskDead (description="Mask value for dead channel", quantity="km s-1")
Long- Pa- ram- e- ter	maskMaster (description="Mask value for master bit", quantity="km s-1")
Long- Pa- ram- e- ter	maskNoisy (description="Mask value for noisy channel", quantity="km s-1")
Long- Pa- ram- e- ter	maskSlow (description="Mask value for slow channel", quantity="km s-1")
Boolean- Pa- ram- e- ter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="km s-1")
DoublePa- ram- e- ter	ratioTruncatedSSW (description="Largest ratio of number of out-of-range samples to total number of samples in SSW data", quantity="km s-1")
DoublePa- ram- e- ter	ratioTruncatedSLW (description="Largest ratio of number of out-of-range samples to total number of samples in SLW data", quantity="km s-1")
Long- Pa- ram- e- ter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="km s-1")
Long- Pa-	maskTruncated (description="Mask value for ADC conversion truncation", quantity="km s-1")

ram- e- ter	
Long- Pa- ram- e- ter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="km s-1")
DoublePa- ram- e- ter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="km s-1")
Long- Pa- ram- e- ter	maskInvalidTime (description="Mask value for invalid sample time", quantity="km s-1")
DoublePa- ram- e- ter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoublePa- ram- e- ter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
Boolean- Pa- ram- e- ter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
DoublePa- ram- e- ter	slwBiasAmpl (description="SLW bias amplitude", quantity="V")
DoublePa- ram- e- ter	sswBiasAmpl (description="SSW bias amplitude", quantity="V")
DoublePa- ram- e- ter	slwBiasPhase (description="SLW bias phase", quantity="rad")
DoublePa- ram- e- ter	sswBiasPhase (description="SSW bias phase", quantity="rad")

Boolean-Parameter	rcRollApp (description="RC roll correction applied", quantity="rad")
DoubleParameter	subkTempDrift (description="Drift measured by the SubK temperature probe", quantity="K")
Long-Parameter	maskGlitchL1Detected (description="Mask value for first level glitch detected", quantity="K")
Long-Parameter	maskGlitchL1NotRemoved (description="Mask value for first level glitch detected and not removed", quantity="K")
DoubleParameter	ratioSpecFirstLevelGlitchesSLW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the SLW array", quantity="K")
DoubleParameter	ratioSpecFirstLevelGlitchesSSW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the SSW array", quantity="K")
DoubleParameter	ratioSamplesOutOfCalibrationRangeSSW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="K")
Long-Parameter	numberBelowK3VoltageSSW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="K")
DoubleParameter	ratioSamplesOutOfCalibrationRangeSLW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="K")
Long-Parameter	numberBelowK3VoltageSLW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="K")
Long-Parameter	maskVoltageOol (description="Mask value for voltage out of fitted range", quantity="K")

	e- ter	
Long- Pa- ram- e- ter		maskVoltageBelowK3 (description="Mask value for voltage below K3", quantity="K")
Long- Pa- ram- e- ter		maskNoRespData (description="Mask value for voltage out of fitted range and/or below K3", quantity="K")
Boolean- Pa- ram- e- ter		SpecNonLinearityCorrectionDone (description="Non-linearity correction has been applied", quantity="K")
DatePa- ram- e- ter		respControlStamp (description="Control Stamp used to ensure synchronization of Flux Conversion and Temperature Drift correction tasks", quantity="K")
Long- Pa- ram- e- ter		numberClippedDetectorsSLW (description="Maximum number of detectors in SLW where at least one sample was flagged as clipped and could not be corrected", quantity="K")
Long- Pa- ram- e- ter		numberClippedDetectorsSSW (description="Maximum number of detectors in SSW where at least one sample was flagged as clipped and could not be corrected", quantity="K")
DoublePa- ram- e- ter		scanExtrema (description="Maximum ratio of measured SMEC scan extrema to commanded scan extrema", quantity="K")
DoublePa- ram- e- ter		smecTemperature (description="Maximum difference between maximum and minimum SMEC temperatures (in K)", quantity="K")
Long- Pa- ram- e- ter		missedFringes (description="Maximum number of missed optical encoder fringes", quantity="K")
DoublePa- ram- e- ter		stageSpeedAverage (description="Maximum ratio of the measured SMEC speed to the commanded SMEC speed", quantity="K")
DoublePa- ram-		stageSpeedDeviation (description="Maximum standard deviation of the SMEC speed (in micron/s)", quantity="K")

e- ter	
Long- Pa- ram- e- ter	smecOpenLoopCount (description="Number of housekeeping entries which indicate that the SMEC is not in closed loop", quantity="K")
Dou- blePa- ram- e- ter	ratioSpecSecondLevelGlitchesSSW (description="Maximum ratio of number of 2nd-level flagged samples over number of data samples in the detectors of the SSW array", quantity="K")
Dou- blePa- ram- e- ter	ratioSpecSecondLevelGlitchesSLW (description="Maximum ratio of number of 2nd-level flagged samples over number of data samples in the detectors of the SLW array", quantity="K")
Dou- blePa- ram- e- ter	residualPhaseSLW (description="Maximum phase within the phase correction limits (in units of degree) for SLW", quantity="K")
Dou- blePa- ram- e- ter	residualPhaseSSW (description="Maximum phase within the phase correction limits (in units of degree) for SSW", quantity="K")
Dou- blePa- ram- e- ter	outOfBandHighRatioSLW (description="Maximum ratio of the mean of the absolute flux between 1200 and 5996 GHz over the mean of the absolute flux within the band edges", quantity="K")
Dou- blePa- ram- e- ter	outOfBandHighRatioSSW (description="Maximum ratio of the mean of the absolute flux between 1799 and 5996 GHz over the mean of the absolute flux within the band edges", quantity="K")
Dou- blePa- ram- e- ter	outOfBandLowRatioSLW (description="Maximum ratio of the mean of the absolute flux between 0.03 and 360 GHz over the mean of the absolute flux within the band edges", quantity="K")
Dou- blePa- ram- e- ter	outOfBandLowRatioSSW (description="Maximum ratio of the mean of the absolute flux between 0.03 and 900 GHz over the mean of the absolute flux within the band edges", quantity="K")
Dou- blePa- ram- e- ter	deltaSCalTemp (description="SCal maximum temperature variation (in K)", quantity="K")
Dou- blePa-	deltaSCal2Temp (description="SCal2 maximum temperature variation (in K)", quantity="K")

ram- e- ter	
DoublePa- ram- e- ter	deltaSCal4Temp (description="SCal4 maximum temperature variation (in K)", quantity="K")
DatePa- ram- e- ter	slewTime (description="Scheduled start time of the slew", quantity="K")
<i>Columns</i>	
<i>com- pos- ite</i>	(description="null")
<i>Meta- da- ta</i>	
Long- Pa- ram- eter	count (description="Set number")
Long- Pa- ram- eter	scanNumber (description="Scan number")
String- Pa- ram- eter	scanDir (description="Scan direction")
DatePa- ram- eter	scanStartDate (description="Start date of the FTS scan")
DatePa- ram- eter	scanEndDate (description="End date of the FTS scan")
<i>Columns</i>	
<i>ta- ble dataset</i>	(name="SLWA1", description="null")
<i>Meta- data</i>	
DoublePa- rame- ter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
DoublePa- rame- ter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")

String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SLWA2", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SLWA3", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")

	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SLWB1", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SLWB2", description="null")
<i>Meta-data</i>		

	DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SLWB3", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")

<i>table</i>	(name="SLWB4", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
DoubleId	opd (description="Optical Path Difference", quantity="cm")
DoubleId	signal (description="Signal", quantity="V")
IntId	mask (description="Mask", quantity="1")
<i>table</i>	(name="SLWC1", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
DoubleId	opd (description="Optical Path Difference", quantity="cm")

	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SLWC2", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SLWC3", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SLWC4", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Actual Declination of pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SLWC5", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Actual Declination of pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")

	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
	table dataset	(name="SLWD1", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
	table dataset	(name="SLWD2", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")

String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SLWD3", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SLWD4", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")

	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SLWE1", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SLWE2", description="null")
<i>Meta-data</i>		

	DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>dataset</i>	table	(name="SLWE3", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")

<i>table</i>	(name="SSWA1", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table</i>	(name="SSWA2", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")

	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWA3", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWA4", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table</i>	(name="SSWB1", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Actual Declination of pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table</i>	(name="SSWB2", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Actual Declination of pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")

	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
	table dataset	(name="SSWB3", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
	table dataset	(name="SSWB4", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")

String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWB5", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWC1", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")

	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWC2", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWC3", description="null")
<i>Meta-data</i>		

	DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWC4", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")

<i>table</i>	(name="SSWC5", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
DoubleId	opd (description="Optical Path Difference", quantity="cm")
DoubleId	signal (description="Signal", quantity="V")
IntId	mask (description="Mask", quantity="1")
<i>table</i>	(name="SSWC6", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
DoubleId	opd (description="Optical Path Difference", quantity="cm")

	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWD1", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWD2", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table</i>	(name="SSWD3", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Actual Declination of pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table</i>	(name="SSWD4", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Actual Declination of pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")

	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
	table dataset	(name="SSWD6", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
	table dataset	(name="SSWD7", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")

String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWE1", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWE2", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")

	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWE3", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWE4", description="null")
<i>Meta-data</i>		

	DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWE5", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")

<i>table</i>	(name="SSWE6", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
DoubleId	opd (description="Optical Path Difference", quantity="cm")
DoubleId	signal (description="Signal", quantity="V")
IntId	mask (description="Mask", quantity="1")
<i>table</i>	(name="SSWF1", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
DoubleId	opd (description="Optical Path Difference", quantity="cm")

	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWF2", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWF3", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWF4", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Actual Declination of pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWF5", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Actual Declination of pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWG1", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Actual Declination of pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWG2", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Actual Declination of pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")

	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
	table dataset	(name="SSWG3", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
	table dataset	(name="SSWG4", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")

String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")

5.3.13. SPIRE Product Level 1 - Spectrometer Detector Interferogram

	<i>product (type="SDI", description="Spectrometer Detector Interferogram")</i>
<i>Meta-data</i>	
String-Parameter	telescope (description="Name of telescope")
String-Parameter	instrument (description="Instrument attached to this product")
String-Parameter	subsystem (description="Instrument Subsystem")
String-Parameter	source (description="TM source packet name")
String-Parameter	creator (description="Generator of this product")
String-Parameter	object (description="Target name")

e- ter	
String- Pa- ram- e- ter	observer (description="Observer name")
String- Pa- ram- e- ter	proposal (description="Proposal name")
Long- Pa- ram- e- ter	obsid (description="Observation identifier")
Long- Pa- ram- e- ter	odNumber (description="Operational day number")
DatePa- ram- e- ter	creationDate (description="Creation date of this product")
DatePa- ram- e- ter	startDate (description="Start date of this product")
DatePa- ram- e- ter	endDate (description="End date of this product")
String- Pa- ram- e- ter	aot (description="AOT Identifier")
String- Pa- ram- e- ter	aorLabel (description="AOR Label as entered in HSpot")
String- Pa- ram- e- ter	cusMode (description="CUS observation mode")
String- Pa- ram-	instMode (description="Instrument Mode")

e- ter	
String- Pa- ram- e- ter	obsMode (description="Observation mode name")
String- Pa- ram- e- ter	pointingMode (description="Pointing mode")
String- Pa- ram- e- ter	mapSampling (description="Spatial sampling of map")
String- Pa- ram- e- ter	biasMode (description="Bias mode")
Long- Pa- ram- e- ter	jiggId (description="Jiggle ID")
Long- Pa- ram- e- ter	pointNum (description="Pointing number")
Long- Pa- ram- e- ter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
Dou- blePa- ram- e- ter	onSourceTime (description="Total on-source integration time", quantity="s")
String- Pa- ram- e- ter	commandedResolution (description="Commanded Spectral Resolution", quantity="s")
Dou- blePa- ram- e- ter	biasFreq (description="Bias frequency", quantity="Hz")
String- Pa-	elecSide (description="Electronic side", quantity="Hz")

ram- e- ter	
String- Pa- ram- e- ter	modelName (description="Model name attached to this product", quantity="Hz")
String- Pa- ram- e- ter	formatVersion (description="Version of product format", quantity="Hz")
String- Pa- ram- e- ter	missionConfig (description="Mission configuration", quantity="Hz")
Dou- blePa- ram- e- ter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
String- Pa- ram- e- ter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
Dou- blePa- ram- e- ter	ra (description="Actual Right Ascension of pointing", quantity="deg")
Dou- blePa- ram- e- ter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
Dou- blePa- ram- e- ter	dec (description="Actual Declination of pointing", quantity="deg")
Dou- blePa- ram- e- ter	decNominal (description="Requested Declination of pointing", quantity="deg")
Dou- blePa- ram- e- ter	posAngle (description="Position Angle of pointing", quantity="deg")

DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in the engineering conversion", quantity="km s-1")
StringParameter	calVersion (description="Calibration version", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")

e- ter	
String- Pa- ram- e- ter	processResolution (description="The resolution used to process the data", quantity="km s-1")
Long- Pa- ram- e- ter	numScans (description="Number of Scans", quantity="km s-1")
Long- Pa- ram- e- ter	bbid (description="Building Block Identifier", quantity="km s-1")
String- Pa- ram- e- ter	bbTypeName (description="Building block type name", quantity="km s-1")
String- Pa- ram- e- ter	freqFrame (description="Standard of rest for spectral axis", quantity="km s-1")
String- Pa- ram- e- ter	apodType (description="Type of Apodization applied", quantity="km s-1")
String- Pa- ram- e- ter	apodName (description="Name of Apodization function applied", quantity="km s-1")
Boolean- Pa- ram- e- ter	phaseCorrApplied (description="Phase correction has been applied", quantity="km s-1")
String- Pa- ram- e- ter	signalTable (description="Name of the signal table", quantity="km s-1")
Long- Pa- ram- e- ter	maskDead (description="Mask value for dead channel", quantity="km s-1")
Long- Pa-	maskMaster (description="Mask value for master bit", quantity="km s-1")

ram- e- ter	
Long- Pa- ram- e- ter	maskNoisy (description="Mask value for noisy channel", quantity="km s-1")
Long- Pa- ram- e- ter	maskSlow (description="Mask value for slow channel", quantity="km s-1")
Boolean- Pa- ram- e- ter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="km s-1")
DoublePa- ram- e- ter	ratioTruncatedSSW (description="Largest ratio of number of out-of-range samples to total number of samples in SSW data", quantity="km s-1")
DoublePa- ram- e- ter	ratioTruncatedSLW (description="Largest ratio of number of out-of-range samples to total number of samples in SLW data", quantity="km s-1")
Long- Pa- ram- e- ter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="km s-1")
Long- Pa- ram- e- ter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="km s-1")
Long- Pa- ram- e- ter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="km s-1")
DoublePa- ram- e- ter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="km s-1")
Long- Pa- ram- e- ter	maskInvalidTime (description="Mask value for invalid sample time", quantity="km s-1")

DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
DoubleParameter	slwBiasAmpl (description="SLW bias amplitude", quantity="V")
DoubleParameter	sswBiasAmpl (description="SSW bias amplitude", quantity="V")
DoubleParameter	slwBiasPhase (description="SLW bias phase", quantity="rad")
DoubleParameter	sswBiasPhase (description="SSW bias phase", quantity="rad")
BooleanParameter	rcRollApp (description="RC roll correction applied", quantity="rad")
DoubleParameter	subkTempDrift (description="Drift measured by the SubK temperature probe", quantity="K")
LongParameter	maskGlitchL1Detected (description="Mask value for first level glitch detected", quantity="K")
LongParameter	maskGlitchL1NotRemoved (description="Mask value for first level glitch detected and not removed", quantity="K")

e- ter	
DoubleParameter	ratioSpecFirstLevelGlitchesSLW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the SLW array", quantity="K")
DoubleParameter	ratioSpecFirstLevelGlitchesSSW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the SSW array", quantity="K")
DoubleParameter	ratioSamplesOutOfCalibrationRangeSSW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="K")
LongParameter	numberBelowK3VoltageSSW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="K")
DoubleParameter	ratioSamplesOutOfCalibrationRangeSLW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="K")
LongParameter	numberBelowK3VoltageSLW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="K")
LongParameter	maskVoltageOol (description="Mask value for voltage out of fitted range", quantity="K")
LongParameter	maskVoltageBelowK3 (description="Mask value for voltage below K3", quantity="K")
LongParameter	maskNoRespData (description="Mask value for voltage out of fitted range and/or below K3", quantity="K")
BooleanParameter	SpecNonLinearityCorrectionDone (description="Non-linearity correction has been applied", quantity="K")
DateParameter	respControlStamp (description="Control Stamp used to ensure synchronization of Flux Conversion and Temperature Drift correction tasks", quantity="K")

e- ter	
Long- Pa- ram- e- ter	numberClippedDetectorsSLW (description="Maximum number of detectors in SLW where at least one sample was flagged as clipped and could not be corrected", quantity="K")
Long- Pa- ram- e- ter	numberClippedDetectorsSSW (description="Maximum number of detectors in SSW where at least one sample was flagged as clipped and could not be corrected", quantity="K")
Dou- blePa- ram- e- ter	scanExtrema (description="Maximum ratio of measured SMEC scan extrema to commanded scan extrema", quantity="K")
Dou- blePa- ram- e- ter	smecTemperature (description="Maximum difference between maximum and minimum SMEC temperatures (in K)", quantity="K")
Long- Pa- ram- e- ter	missedFringes (description="Maximum number of missed optical encoder fringes", quantity="K")
Dou- blePa- ram- e- ter	stageSpeedAverage (description="Maximum ratio of the measured SMEC speed to the commanded SMEC speed", quantity="K")
Dou- blePa- ram- e- ter	stageSpeedDeviation (description="Maximum standard deviation of the SMEC speed (in micron/s)", quantity="K")
Long- Pa- ram- e- ter	smecOpenLoopCount (description="Number of housekeeping entries which indicate that the SMEC is not in closed loop", quantity="K")
Dou- blePa- ram- e- ter	ratioSpecSecondLevelGlitchesSSW (description="Maximum ratio of number of 2nd-level flagged samples over number of data samples in the detectors of the SSW array", quantity="K")
Dou- blePa- ram- e- ter	ratioSpecSecondLevelGlitchesSLW (description="Maximum ratio of number of 2nd-level flagged samples over number of data samples in the detectors of the SLW array", quantity="K")
Dou- blePa-	residualPhaseSLW (description="Maximum phase within the phase correction limits (in units of degree) for SLW", quantity="K")

ram- e- ter	
DoublePa- ram- e- ter	residualPhaseSSW (description="Maximum phase within the phase correction limits (in units of degree) for SSW", quantity="K")
DoublePa- ram- e- ter	outOfBandHighRatioSLW (description="Maximum ratio of the mean of the absolute flux between 1200 and 5996 GHz over the mean of the absolute flux within the band edges", quantity="K")
DoublePa- ram- e- ter	outOfBandHighRatioSSW (description="Maximum ratio of the mean of the absolute flux between 1799 and 5996 GHz over the mean of the absolute flux within the band edges", quantity="K")
DoublePa- ram- e- ter	outOfBandLowRatioSLW (description="Maximum ratio of the mean of the absolute flux between 0.03 and 360 GHz over the mean of the absolute flux within the band edges", quantity="K")
DoublePa- ram- e- ter	outOfBandLowRatioSSW (description="Maximum ratio of the mean of the absolute flux between 0.03 and 900 GHz over the mean of the absolute flux within the band edges", quantity="K")
DoublePa- ram- e- ter	deltaSCalTemp (description="SCal maximum temperature variation (in K)", quantity="K")
DoublePa- ram- e- ter	deltaSCal2Temp (description="SCal2 maximum temperature variation (in K)", quantity="K")
DoublePa- ram- e- ter	deltaSCal4Temp (description="SCal4 maximum temperature variation (in K)", quantity="K")
DatePa- ram- e- ter	slewTime (description="Scheduled start time of the slew", quantity="K")
DoublePa- ram- e- ter	missingSciData (description="Percentage of missing science data", quantity="K")
Columns	

<i>com- pos- ite</i>	(description="null")
<i>Meta- da- ta</i>	
Long- Pa- ram- eter	count (description="Set number")
Long- Pa- ram- eter	scanNumber (description="Scan number")
String- Pa- ram- eter	scanDir (description="Scan direction")
DatePa- ram- eter	scanStartDate (description="Start date of the FTS scan")
DatePa- ram- eter	scanEndDate (description="End date of the FTS scan")
<i>Columns</i>	
<i>ta- ble dataset</i>	(name="SLWA1", description="null")
<i>Meta- data</i>	
Dou- blePa- rame- ter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
Dou- blePa- rame- ter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
String- Pa- rame- ter	channelName (description="Channel name", quantity="deg")
Dou- blePa- rame- ter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>Dou- bleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>Dou- bleId</i>	signal (description="Signal", quantity="V")

	<i>Int1d</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SLWA2", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	<i>Double1d</i>	opd (description="Optical Path Difference", quantity="cm")
	<i>Double1d</i>	signal (description="Signal", quantity="V")
	<i>Int1d</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SLWA3", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		

	<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SLWB1", description="null")
	<i>Meta-data</i>	
<i>Columns</i>	<i>DoubleParameter</i>	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
	<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
	<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>dataset</i>	<i>IntId</i>	mask (description="Mask", quantity="1")
	<i>table</i>	(name="SLWB2", description="null")
	<i>Meta-data</i>	
<i>Columns</i>	<i>DoubleParameter</i>	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

	parameter	
<i>Columns</i>		
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")	
<i>DoubleId</i>	signal (description="Signal", quantity="V")	
<i>IntId</i>	mask (description="Mask", quantity="1")	
<i>table dataset</i>	(name="SLWB3", description="null")	
<i>Meta-data</i>		
<i>DoubleParameter</i>	dec (description="Actual Declination of pointing for this channel", quantity="deg")	
<i>DoubleParameter</i>	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")	
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")	
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")	
<i>Columns</i>		
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")	
<i>DoubleId</i>	signal (description="Signal", quantity="V")	
<i>IntId</i>	mask (description="Mask", quantity="1")	
<i>table dataset</i>	(name="SLWB4", description="null")	
<i>Meta-data</i>		
<i>DoubleParameter</i>	dec (description="Actual Declination of pointing for this channel", quantity="deg")	
<i>DoubleParameter</i>	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")	
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")	

	parameter	
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SLWC1", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SLWC2", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")

	parameter	
	String-Parameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>dataset</i>	table	(name="SLWC3", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	String-Parameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>dataset</i>	table	(name="SLWC4", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")

	parameter	
	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SLWC5", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SLWD1", description="null")

<i>Meta-</i>	
<i>data</i>	
DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
DoubleId	opd (description="Optical Path Difference", quantity="cm")
DoubleId	signal (description="Signal", quantity="V")
IntId	mask (description="Mask", quantity="1")
<i>table</i>	(name="SLWD2", description="null")
<i>dataset</i>	
<i>Meta-</i>	
<i>data</i>	
DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
DoubleId	opd (description="Optical Path Difference", quantity="cm")
DoubleId	signal (description="Signal", quantity="V")
IntId	mask (description="Mask", quantity="1")

<i>table</i>	(name="SLWD3", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
DoubleId	opd (description="Optical Path Difference", quantity="cm")
DoubleId	signal (description="Signal", quantity="V")
IntId	mask (description="Mask", quantity="1")
<i>table</i>	(name="SLWD4", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
DoubleId	opd (description="Optical Path Difference", quantity="cm")

	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SLWE1", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SLWE2", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table</i>	(name="SLWE3", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Actual Declination of pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table</i>	(name="SSWA1", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Actual Declination of pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")

	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
	table	(name="SSWA2", description="null")
<i>dataset</i>		
<i>Meta-data</i>		
	DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
	table	(name="SSWA3", description="null")
<i>dataset</i>		
<i>Meta-data</i>		
	DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")

String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWA4", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWB1", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")

	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWB2", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWB3", description="null")
<i>Meta-data</i>		

	DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWB4", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")

<i>table</i>	(name="SSWB5", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
DoubleId	opd (description="Optical Path Difference", quantity="cm")
DoubleId	signal (description="Signal", quantity="V")
IntId	mask (description="Mask", quantity="1")
<i>table</i>	(name="SSWC1", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
DoubleId	opd (description="Optical Path Difference", quantity="cm")

	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWC2", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWC3", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table</i>	(name="SSWC4", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Actual Declination of pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table</i>	(name="SSWC5", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Actual Declination of pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")

	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
	table dataset	(name="SSWC6", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
	table dataset	(name="SSWD1", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")

String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWD2", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWD3", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")

	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWD4", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWD6", description="null")
<i>Meta-data</i>		

	DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWD7", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")

<i>table</i>	(<i>name="SSWE1", description="null"</i>)
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table</i>	(<i>name="SSWE2", description="null"</i>)
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")

	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWE3", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWE4", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table</i>	(name="SSWE5", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Actual Declination of pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table</i>	(name="SSWE6", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Actual Declination of pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")

	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
	table dataset	(name="SSWF1", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
	table dataset	(name="SSWF2", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")

String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWF3", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWF4", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")

	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWF5", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWG1", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")

	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWG2", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWG3", description="null")
<i>Meta-data</i>		

	Dou- blePa- rame- ter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	Dou- blePa- rame- ter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	String- Pa- rame- ter	channelName (description="Channel name", quantity="deg")
	Dou- blePa- rame- ter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Columns		
	Dou- bleId	opd (description="Optical Path Difference", quantity="cm")
	Dou- bleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
table dataset		(name="SSWG4", description="null")
Meta- data		
	Dou- blePa- rame- ter	dec (description="Actual Declination of pointing for this channel", quantity="deg")
	Dou- blePa- rame- ter	ra (description="Actual Right Ascension of pointing for this channel", quantity="deg")
	String- Pa- rame- ter	channelName (description="Channel name", quantity="deg")
	Dou- blePa- rame- ter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Columns		
	Dou- bleId	opd (description="Optical Path Difference", quantity="cm")
	Dou- bleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")

5.3.14. SPIRE Product Level 1 - Photometer Scan Product

<i>product (type="PSP", description="Photometer Scan Product")</i>	
Meta- data	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
DoubleParameter	biasFreq (description="Bias frequency", quantity="Hz")

StringParameter	elecSide (description="Electronic side", quantity="Hz")
StringParameter	modelName (description="Model name attached to this product", quantity="Hz")
StringParameter	formatVersion (description="Version of product format", quantity="Hz")
StringParameter	missionConfig (description="Mission configuration", quantity="Hz")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
StringParameter	origin (description="Site that created the product", quantity="arcsec a-1")
StringParameter	type (description="Product Type Identification", quantity="arcsec a-1")
StringParameter	description (description="Name of this product", quantity="arcsec a-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="arcsec a-1")
StringParameter	calVersion (description="Calibration version", quantity="arcsec a-1")
StringParameter	level (description="The level of the product", quantity="arcsec a-1")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec a-1")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec a-1")
StringParameter	signalTable (description="Name of the signal table", quantity="arcsec a-1")
LongParameter	maskDead (description="Mask value for dead channel", quantity="arcsec a-1")
LongParameter	maskMaster (description="Mask value for master bit", quantity="arcsec a-1")

LongParameter	maskNoisy (description="Mask value for noisy channel", quantity="arcsec a-1")
LongParameter	maskSlow (description="Mask value for slow channel", quantity="arcsec a-1")
BooleanParameter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="arcsec a-1")
DoubleParameter	ratioTruncatedPLW (description="Maximum ratio of out of range values to total number of values in PLW data.", quantity="arcsec a-1")
DoubleParameter	ratioTruncatedPMW (description="Maximum ratio of out of range values to total number of values in PMW data.", quantity="arcsec a-1")
DoubleParameter	ratioTruncatedPSW (description="Maximum ratio of out of range values to total number of values in PSW data.", quantity="arcsec a-1")
DoubleParameter	ratioTruncatedPTC (description="Total fraction of out of range values for PTC", quantity="arcsec a-1")
LongParameter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="arcsec a-1")
LongParameter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="arcsec a-1")
LongParameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="arcsec a-1")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="arcsec a-1")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="arcsec a-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
BooleanParameter	rcRollApp (description="RC roll correction applied", quantity="ms/min")
DoubleParameter	subkTempDrift (description="Drift measured by the SubK temperature probe", quantity="K")
LongParameter	maskGlitchL1Detected (description="Mask value for first level glitch detected", quantity="K")
LongParameter	maskGlitchL1NotRemoved (description="Mask value for first level glitch detected and not removed", quantity="K")
DoubleParameter	ratioSamplesOutOfCalibrationRangePSW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="K")
LongParameter	numberBelowK3VoltagePSW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="K")
DoubleParameter	ratioSamplesOutOfCalibrationRangePMW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="K")

LongParameter	numberBelowK3VoltagePMW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="K")
DoubleParameter	ratioSamplesOutOfCalibrationRangePLW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="K")
LongParameter	numberBelowK3VoltagePLW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="K")
LongParameter	maskVoltageOol (description="Mask value for voltage out of fitted range", quantity="K")
LongParameter	maskVoltageBelowK3 (description="Mask value for voltage below K3", quantity="K")
LongParameter	maskNoRespData (description="Mask value for voltage out of fitted range and/or below K3", quantity="K")
DateParameter	respControlStamp (description="Control Stamp used to ensure synchronization of Flux Conversion and Temperature Drift correction tasks", quantity="K")
LongParameter	maskNotChoppedToSky (description="Mask value for channel not chopped to sky", quantity="K")
LongParameter	maskTsignalHdv (description="Mask value for thermistor/DP signal deviations are larger than expected", quantity="K")
LongParameter	maskNoThermistorAvailable (description="Mask value for all the available thermistors are affected by either saturation or signal jump", quantity="K")
LongParameter	maskNoDarkChannelAvailable (description="Mask value for all available dark channels in the array are affected by either saturation or signal jump", quantity="K")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="K")
DoubleParameter	plwBiasAmpl (description="PLW bias amplitude", quantity="V")
DoubleParameter	pmwBiasAmpl (description="PMW bias amplitude", quantity="V")
DoubleParameter	pswBiasAmpl (description="PSW bias amplitude", quantity="V")
DoubleParameter	ptcBiasAmpl (description="PTC bias amplitude", quantity="V")
DoubleParameter	plwBiasPhase (description="PLW bias phase", quantity="rad")
DoubleParameter	pmwBiasPhase (description="PMW bias phase", quantity="rad")
DoubleParameter	pswBiasPhase (description="PSW bias phase", quantity="rad")
DoubleParameter	ptcBiasPhase (description="PTC bias phase", quantity="rad")
BooleanParameter	temperatureDriftCorrectionDone (description="Indicate the status of the temperature correction.", quantity="rad")
StringParameter	scanSpeed (description="Speed of scan", quantity="rad")
LongParameter	scanLineNum (description="Scan line number", quantity="rad")

BooleanParameter	electricalCrosstalkCorrectionDone (description="Flag set when the electrical crosstalk correction is done", quantity="rad")
DateParameter	startNominalScanLine (description="Start date of the nominal scan line", quantity="rad")
DateParameter	endNominalScanLine (description="End date of the nominal scan line", quantity="rad")
LongParameter	numberBadVoltageOffsetPLW (description="Number of PLW bolometers with bad voltage offset resets", quantity="rad")
LongParameter	numberBadVoltageOffsetPMW (description="Number of PMW bolometers with bad voltage offset resets", quantity="rad")
LongParameter	numberBadVoltageOffsetPSW (description="Number of PSW bolometers with bad voltage offset resets", quantity="rad")
BooleanParameter	coolerBurpDetected (description="Indicates a cooler burp", quantity="rad")
BooleanParameter	coolerBurpCorrected (description="Indicate the status of the cooler burp correction.", quantity="rad")
BooleanParameter	fluxConversionDone (description="Indicates nominal termination of FluxConversion Task", quantity="rad")
DoubleParameter	ratioPhotFirstLevelGlitchesPSW (description="Ratio of number of flagged samples over number of data samples in the detectors of the PSW array", quantity="rad")
DoubleParameter	ratioPhotFirstLevelGlitchesPMW (description="Ratio of number of flagged samples over number of data samples in the detectors of the PMW array", quantity="rad")
DoubleParameter	ratioPhotFirstLevelGlitchesPLW (description="Ratio of number of flagged samples over number of data samples in the detectors of the PLW array", quantity="rad")
LongParameter	bsmRangeDuringScan (description="Range of the BSM motion during scan map observations", quantity="rad")
Columns	
table dataset	(name="mask", description="Mask timelines")
Metadata	
Columns	
DoubleId	sampleTime (description="Sample time", quantity="TAI")
IntId	PSWR1 (description="PHOTFARRAY001", quantity="1")
IntId	PSWD16 (description="PHOTFARRAY002", quantity="1")
IntId	PSWT1 (description="PHOTFARRAY003", quantity="1")
IntId	PSWB16 (description="PHOTFARRAY004", quantity="1")
IntId	PSWC15 (description="PHOTFARRAY005", quantity="1")
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IntId	PSWB15 (description="PHOTFARRAY008", quantity="1")
IntId	PSWC14 (description="PHOTFARRAY009", quantity="1")
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IntId	PSWA14 (description="PHOTFARRAY011", quantity="1")
IntId	PSWA13 (description="PHOTFARRAY012", quantity="1")
IntId	PSWB14 (description="PHOTFARRAY013", quantity="1")
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<i>Int1d</i>	PSWA12 (description="PHOTFARRAY017", quantity="1")
<i>Int1d</i>	PSWC12 (description="PHOTFARRAY018", quantity="1")
<i>Int1d</i>	PSWD12 (description="PHOTFARRAY019", quantity="1")
<i>Int1d</i>	PSWB12 (description="PHOTFARRAY020", quantity="1")
<i>Int1d</i>	PSWE11 (description="PHOTFARRAY021", quantity="1")
<i>Int1d</i>	PSWA11 (description="PHOTFARRAY022", quantity="1")
<i>Int1d</i>	PSWC11 (description="PHOTFARRAY023", quantity="1")
<i>Int1d</i>	PSWB11 (description="PHOTFARRAY024", quantity="1")
<i>Int1d</i>	PSWE1 (description="PHOTFARRAY025", quantity="1")
<i>Int1d</i>	PSWF1 (description="PHOTFARRAY026", quantity="1")
<i>Int1d</i>	PSWT2 (description="PHOTFARRAY027", quantity="1")
<i>Int1d</i>	PSWH1 (description="PHOTFARRAY028", quantity="1")
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<i>Int1d</i>	PSWJ1 (description="PHOTFARRAY030", quantity="1")
<i>Int1d</i>	PSWH2 (description="PHOTFARRAY031", quantity="1")
<i>Int1d</i>	PSWF2 (description="PHOTFARRAY032", quantity="1")
<i>Int1d</i>	PSWJ2 (description="PHOTFARRAY033", quantity="1")
<i>Int1d</i>	PSWG2 (description="PHOTFARRAY034", quantity="1")
<i>Int1d</i>	PSWH3 (description="PHOTFARRAY035", quantity="1")
<i>Int1d</i>	PSWJ3 (description="PHOTFARRAY036", quantity="1")
<i>Int1d</i>	PSWE2 (description="PHOTFARRAY037", quantity="1")
<i>Int1d</i>	PSWF3 (description="PHOTFARRAY038", quantity="1")
<i>Int1d</i>	PSWG3 (description="PHOTFARRAY039", quantity="1")
<i>Int1d</i>	PSWH4 (description="PHOTFARRAY040", quantity="1")
<i>Int1d</i>	PSWJ4 (description="PHOTFARRAY041", quantity="1")
<i>Int1d</i>	PSWE3 (description="PHOTFARRAY042", quantity="1")
<i>Int1d</i>	PSWF4 (description="PHOTFARRAY043", quantity="1")
<i>Int1d</i>	PSWG4 (description="PHOTFARRAY044", quantity="1")
<i>Int1d</i>	PSWH5 (description="PHOTFARRAY045", quantity="1")
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<i>Int1d</i>	PSWF5 (description="PHOTFARRAY048", quantity="1")
<i>Int1d</i>	PSWD6 (description="PHOTFARRAY049", quantity="1")
<i>Int1d</i>	PSWB6 (description="PHOTFARRAY050", quantity="1")
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<i>Int1d</i>	PSWA5 (description="PHOTFARRAY052", quantity="1")
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<i>Int1d</i>	PSWA3 (description="PHOTFARRAY062", quantity="1")
<i>Int1d</i>	PSWA2 (description="PHOTFARRAY063", quantity="1")
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<i>Int1d</i>	PSWC2 (description="PHOTFARRAY065", quantity="1")
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<i>Int1d</i>	PSWD2 (description="PHOTFARRAY067", quantity="1")
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<i>Int1d</i>	PSWB1 (description="PHOTFARRAY070", quantity="1")
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<i>Int1d</i>	PSWJ15 (description="PHOTFARRAY091", quantity="1")
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<i>Int1d</i>	PSWH16 (description="PHOTFARRAY093", quantity="1")
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<i>Int1d</i>	PLWE1 (description="PHOTFARRAY169", quantity="1")
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<i>Int1d</i>	PLWE4 (description="PHOTFARRAY172", quantity="1")
<i>Int1d</i>	PLWD1 (description="PHOTFARRAY173", quantity="1")
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<i>Int1d</i>	PMWC5 (description="PHOTFARRAY283", quantity="1")
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	()
<i>table dataset</i>	Dataset similar to the one above with (name="ra", description="RA timeline")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="dec", description="Dec timeline")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="angVelocity", description="Angular Velocity")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

5.3.15. SPIRE Product Level 1 - Spectrometer Detector Interferogram

	<i>product (type="SDI", description="Spectrometer Detector Interferogram")</i>
Meta- da- ta	
String- Pa- ram- e- ter	telescope (description="Name of telescope")
String- Pa- ram- e- ter	instrument (description="Instrument attached to this product")
String- Pa- ram- e- ter	subsystem (description="Instrument Subsystem")
String- Pa- ram- e- ter	source (description="TM source packet name")
String- Pa- ram- e- ter	creator (description="Generator of this product")
String- Pa- ram- e- ter	object (description="Target name")
String- Pa- ram- e- ter	observer (description="Observer name")
String- Pa- ram- e- ter	proposal (description="Proposal name")
Long- Pa- ram- e- ter	obsid (description="Observation identifier")

Long-Parameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
String-Parameter	aot (description="AOT Identifier")
String-Parameter	aorLabel (description="AOR Label as entered in HSpot")
String-Parameter	cusMode (description="CUS observation mode")
String-Parameter	instMode (description="Instrument Mode")
String-Parameter	obsMode (description="Observation mode name")
String-Parameter	pointingMode (description="Pointing mode")
String-Parameter	mapSampling (description="Spatial sampling of map")

String- Pa- ram- e- ter	biasMode (description="Bias mode")
Long- Pa- ram- e- ter	jiggId (description="Jiggle ID")
Long- Pa- ram- e- ter	pointNum (description="Pointing number")
Long- Pa- ram- e- ter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
DoublePa- ram- e- ter	onSourceTime (description="Total on-source integration time for this observation", quantity="s")
String- Pa- ram- e- ter	commandedResolution (description="Commanded Spectral Resolution", quantity="s")
DoublePa- ram- e- ter	biasFreq (description="Bias frequency", quantity="Hz")
String- Pa- ram- e- ter	elecSide (description="Electronic side", quantity="Hz")
String- Pa- ram- e- ter	modelName (description="Model name attached to this product", quantity="Hz")
String- Pa- ram- e- ter	formatVersion (description="Version of product format", quantity="Hz")
String- Pa- ram-	missionConfig (description="Mission configuration", quantity="Hz")

e- ter	
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")

ram- e- ter	
String- Pa- ram- e- ter	origin (description="Site that created the product", quantity="km s-1")
String- Pa- ram- e- ter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
String- Pa- ram- e- ter	type (description="Product Type Identification", quantity="km s-1")
String- Pa- ram- e- ter	description (description="Name of this product", quantity="km s-1")
String- Pa- ram- e- ter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="km s-1")
String- Pa- ram- e- ter	calVersion (description="Calibration version", quantity="km s-1")
String- Pa- ram- e- ter	level (description="The level of the product", quantity="km s-1")
String- Pa- ram- e- ter	processResolution (description="The resolution that is to be used or was used to process the data", quantity="km s-1")
Long- Pa- ram- e- ter	numScans (description="Number of Scans", quantity="km s-1")
Long- Pa- ram- e- ter	bbid (description="Building Block Identifier", quantity="km s-1")

String-Parameter	bbTypeName (description="Building block type name", quantity="km s-1")
String-Parameter	freqFrame (description="Standard of rest for spectral axis", quantity="km s-1")
String-Parameter	apodType (description="Type of Apodization applied", quantity="km s-1")
String-Parameter	apodName (description="Name of Apodization function applied", quantity="km s-1")
Boolean-Parameter	phaseCorrApplied (description="Phase correction has been applied", quantity="km s-1")
String-Parameter	signalTable (description="Name of the signal table", quantity="km s-1")
Long-Parameter	maskDead (description="Mask value for dead channel", quantity="km s-1")
Long-Parameter	maskMaster (description="Mask value for master bit", quantity="km s-1")
Long-Parameter	maskNoisy (description="Mask value for noisy channel", quantity="km s-1")
Long-Parameter	maskSlow (description="Mask value for slow channel", quantity="km s-1")
Boolean-Parameter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="km s-1")

	e- ter	
DoubleParameter		ratioTruncatedSSW (description="Maximum ratio of out of range values to total number of values in SSW data", quantity="km s-1")
DoubleParameter		ratioTruncatedSLW (description="Maximum ratio of out of range values to total number of values in SLW data", quantity="km s-1")
LongParameter		maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="km s-1")
LongParameter		maskTruncated (description="Mask value for ADC conversion truncation", quantity="km s-1")
LongParameter		maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="km s-1")
DoubleParameter		ratioInvalidTimes (description="Fraction of invalid sample times", quantity="km s-1")
LongParameter		maskInvalidTime (description="Mask value for invalid sample time", quantity="km s-1")
DoubleParameter		timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter		timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
BooleanParameter		invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
DoubleParameter		slwBiasAmpl (description="SLW bias amplitude", quantity="V")

ram- e- ter	
DoublePa- ram- e- ter	sswBiasAmpl (description="SSW bias amplitude", quantity="V")
DoublePa- ram- e- ter	slwBiasPhase (description="SLW bias phase", quantity="rad")
DoublePa- ram- e- ter	sswBiasPhase (description="SSW bias phase", quantity="rad")
Boolean- Pa- ram- e- ter	rcRollApp (description="RC roll correction applied", quantity="rad")
DoublePa- ram- e- ter	subkTempDrift (description="Drift measured by the SubK temperature probe", quantity="K")
Long- Pa- ram- e- ter	maskGlitchL1Detected (description="Mask value for first level glitch detected", quantity="K")
Long- Pa- ram- e- ter	maskGlitchL1NotRemoved (description="Mask value for first level glitch detected and not removed", quantity="K")
DoublePa- ram- e- ter	ratioSpecFirstLevelGlitchesSLW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the SLW array", quantity="K")
DoublePa- ram- e- ter	ratioSpecFirstLevelGlitchesSSW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the SSW array", quantity="K")
DoublePa- ram- e- ter	ratioSamplesOutOfCalibrationRangeSSW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="K")

Long-Parameter	numberBelowK3VoltageSSW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="K")
DoubleParameter	ratioSamplesOutOfCalibrationRangeSLW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="K")
Long-Parameter	numberBelowK3VoltageSLW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="K")
Long-Parameter	maskVoltageOol (description="Mask value for voltage out of fitted range", quantity="K")
Long-Parameter	maskVoltageBelowK3 (description="Mask value for voltage below K3", quantity="K")
Long-Parameter	maskNoRespData (description="Mask value for voltage out of fitted range and/or below K3", quantity="K")
Boolean-Parameter	SpecNonLinearityCorrectionDone (description="null", quantity="K")
String-Parameter	respControlStamp (description="null", quantity="K")
Long-Parameter	numberClippedDetectorsSLW (description="Maximum number of detectors in SLW where at least one sample was flagged as clipped and could not be corrected", quantity="K")
Long-Parameter	numberClippedDetectorsSSW (description="Maximum number of detectors in SSW where at least one sample was flagged as clipped and could not be corrected", quantity="K")
DoubleParameter	scanExtrema (description="Maximum ratio of measured SMEC scan extrema to commanded scan extrema", quantity="K")

e- ter	
DoubleParameter	smecTemperature (description="Maximum difference between maximum and minimum SMEC temperatures (in K)", quantity="K")
LongParameter	missedFringes (description="Maximum number of missed optical encoder fringes", quantity="K")
DoubleParameter	stageSpeedAverage (description="Maximum ratio of the measured SMEC speed to the commanded SMEC speed", quantity="K")
DoubleParameter	stageSpeedDeviation (description="Maximum standard deviation of the SMEC speed (in micron/s)", quantity="K")
LongParameter	smecOpenLoopCount (description="Number of housekeeping entries which indicate that the SMEC is not in closed loop", quantity="K")
DoubleParameter	ratioSpecSecondLevelGlitchesSSW (description="Maximum ratio of number of 2nd-level flagged samples over number of data samples in the detectors of the SSW array", quantity="K")
DoubleParameter	ratioSpecSecondLevelGlitchesSLW (description="Maximum ratio of number of 2nd-level flagged samples over number of data samples in the detectors of the SLW array", quantity="K")
DoubleParameter	residualPhaseSLW (description="Maximum phase within the phase correction limits (in units of degree) for SLW", quantity="K")
DoubleParameter	residualPhaseSSW (description="Maximum phase within the phase correction limits (in units of degree) for SSW", quantity="K")
DoubleParameter	outOfBandHighRatioSLW (description="Maximum ratio of the mean of the absolute flux between 1200 and 5996 GHz over the mean of the absolute flux within the band edges.", quantity="K")

DoubleParameter	outOfBandHighRatioSSW (description="Maximum ratio of the mean of the absolute flux between 1799 and 5996 GHz over the mean of the absolute flux within the band edges.", quantity="K")
DoubleParameter	outOfBandLowRatioSLW (description="Maximum ratio of the mean of the absolute flux between 0.03 and 360 GHz over the mean of the absolute flux within the band edges.", quantity="K")
DoubleParameter	outOfBandLowRatioSSW (description="Maximum ratio of the mean of the absolute flux between 0.03 and 900 GHz over the mean of the absolute flux within the band edges.", quantity="K")
DoubleParameter	deltaSCalTemp (description="SCal maximum temperature variation (in K)", quantity="K")
DoubleParameter	deltaSCal2Temp (description="SCal2 maximum temperature variation (in K)", quantity="K")
DoubleParameter	deltaSCal4Temp (description="SCal4 maximum temperature variation (in K)", quantity="K")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="K")
DoubleParameter	missingSciData (description="Percentage of missing science data", quantity="K")
Columns	
composite	(description="null")
Metadata	
LongParameter	count (description="Set number")
LongParameter	scanNumber (description="Scan number")

	parameter	
	String-Parameter	scanDir (description="Scan direction")
	DateParameter	scanStartDate (description="Start date of the FTS scan")
	DateParameter	scanEndDate (description="End date of the FTS scan")
Columns		
table dataset		(name="SLWA1", description="null")
Meta-data		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	String-Parameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Columns		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
table dataset		(name="SLWA2", description="null")
Meta-data		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")

	parameter	
	String-Parameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>dataset</i>	table	(name="SLWA3", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	String-Parameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>dataset</i>	table	(name="SLWB1", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")

	parameter	
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SLWB2", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SLWB3", description="null")

<i>Meta-</i>	
<i>data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
DoubleId	opd (description="Optical Path Difference", quantity="cm")
DoubleId	signal (description="Signal", quantity="V")
IntId	mask (description="Mask", quantity="1")
<i>table</i>	(name="SLWB4", description="null")
<i>dataset</i>	
<i>Meta-</i>	
<i>data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
DoubleId	opd (description="Optical Path Difference", quantity="cm")
DoubleId	signal (description="Signal", quantity="V")
IntId	mask (description="Mask", quantity="1")

<i>table</i>	<i>(name="SLWC1", description="null")</i>
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table</i>	<i>(name="SLWC2", description="null")</i>
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")

	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SLWC3", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SLWC4", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SLWC5", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SLWD1", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")

	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Columns		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
table dataset		(name="SLWD2", description="null")
Meta-data		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Columns		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
table dataset		(name="SLWD3", description="null")
Meta-data		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")

String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SLWD4", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SLWE1", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")

	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SLWE2", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SLWE3", description="null")
<i>Meta-data</i>		

	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWA1", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")

<i>table</i>	<i>(name="SSWA2", description="null")</i>
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table</i>	<i>(name="SSWA3", description="null")</i>
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")

	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWA4", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWB1", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table</i>	(name="SSWB2", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table</i>	(name="SSWB3", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")

	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
	table	(name="SSWB4", description="null")
<i>dataset</i>		
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
	table	(name="SSWB5", description="null")
<i>dataset</i>		
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")

String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWC1", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWC2", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")

	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWC3", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWC4", description="null")
<i>Meta-data</i>		

	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWC5", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")

<i>table</i>	<i>(name="SSWC6", description="null")</i>
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table</i>	<i>(name="SSWD1", description="null")</i>
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")

	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWD2", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWD3", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWD4", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWD6", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")

	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
	table dataset	(name="SSWD7", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
	table dataset	(name="SSWE1", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")

String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWE2", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWE3", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")

	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWE4", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWE5", description="null")
<i>Meta-data</i>		

	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
<i>table dataset</i>		(name="SSWE6", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")

<i>table</i>	<i>(name="SSWF1", description="null")</i>
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table</i>	<i>(name="SSWF2", description="null")</i>
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")

	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWF3", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWF4", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
<i>Columns</i>		
	<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")

	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWF5", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>		
	<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
	<i>DoubleId</i>	signal (description="Signal", quantity="V")
	<i>IntId</i>	mask (description="Mask", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWG1", description="null")
<i>Meta-data</i>		
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
	<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
	<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWG2", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Columns</i>	
<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>table dataset</i>	(name="SSWG3", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")

	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Columns	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")
	table dataset	(name="SSWG4", description="null")
Metadata		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Columns	DoubleId	opd (description="Optical Path Difference", quantity="cm")
	DoubleId	signal (description="Signal", quantity="V")
	IntId	mask (description="Mask", quantity="1")

5.4. SPIRE Level-2, Level 2.5 and Level 3 Products

5.4.1. SPIRE Product Level 2 - Final corrected map

<i>product (type="PXMP", description="Final corrected map")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")

DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	telescope (description="Name of telescope")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	calVersion (description="Calibration version", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="arcsec/year")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar", quantity="arcsec/year")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar", quantity="arcsec/year")
StringParameter	arrayName (description="Name of bolometer array", quantity="arcsec/year")
StringParameter	unit (description="Unit of the signal", quantity="arcsec/year")

DoubleParameter	ratioInvalidSamplesInTimeline (description="Fraction of NaN or infinite samples", quantity="arcsec/year")
DoubleParameter	ratioInvalidCoordsInTimeline (description="Fraction of NaN or infinite coordinates", quantity="arcsec/year")
LongParameter	nDataSamples (description="Number of data samples propagated in the creation of this Tod", quantity="arcsec/year")
LongParameter	firstSample (description="null", quantity="arcsec/year")
LongParameter	lastSample (description="null", quantity="arcsec/year")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel", quantity="arcsec/year")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel", quantity="arcsec/year")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle", quantity="arcsec/year")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle", quantity="arcsec/year")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR"", quantity="arcsec/year")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR"", quantity="arcsec/year")
DoubleParameter	crota2 (description="The Rotation angle", quantity="arcsec/year")
LongParameter	naxis1 (description="null", quantity="arcsec/year")
LongParameter	naxis2 (description="null", quantity="arcsec/year")
DoubleParameter	wavelength (description="The reference wavelength at which the image is taken", quantity="micrometer")
StringParameter	hfi545 (description="HFI 545 GHz file used", quantity="micrometer")
StringParameter	hfi857 (description="HFI 857 GHz file used", quantity="micrometer")
StringParameter	hfiColor (description="HFI-SPIRE colour correction version used", quantity="micrometer")
DoubleParameter	zPointOffset (description="Offset added to SPIRE image as obtained from cross-calibration with Planck", quantity="MJy sr-1")
DoubleParameter	zPointStDev (description="Standard deviation of difference map between HFI and SPIRE maps as obtained from cross-calibration with Planck", quantity="MJy sr-1")
<i>Columns</i>	
<i>array dataset</i>	(<i>description="Image"</i>)
<i>Metadata</i>	
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR"")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR"")

DoubleParameter	equinox (description="WCS: Equinox, unit=Duration")
DoubleParameter	crota2 (description="The Rotation angle")
<i>Columns</i>	
<i>Double2d</i>	(description="Image", quantity="MJy/sr")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="error", description="Statistical error on the pixel values")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="coverage", description="Coverage")

5.4.2. SPIRE Product Level 2 - Destriper Diagnostic Product

<i>product (type="PDD", description="Destriper Diagnostic Product")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")

DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	type (description="Product Type Identification", quantity="arcsec/year")
StringParameter	description (description="Name of this product", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
StringParameter	arrayName (description="Name of bolometer array", quantity="arcsec/year")
<i>Columns</i>	
<i>table dataset</i>	(name="PLWDiagnosticTable", description="Diagnostic Tabledataset for Destriper")
<i>Metadata</i>	
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	arrayName (description="Name of bolometer array")
DoubleParameter	chiSquareAll (description="Sum of chiSquares")
LongParameter	validTimelines (description="Total number of valid signal timelines in Level1")
LongParameter	convergedTimelines (description="Total number of converged signal timelines")
DoubleParameter	iterThresh (description="Threshold used to determine chiSquare convergence")
LongParameter	maxIter (description="Maximum number of iterations")
LongParameter	pGrade (description="Polynomial degree")
<i>Columns</i>	
<i>StringId</i>	channelName (description="the name of detectors", quantity="none")
<i>IntId</i>	detIndex (description="the detector index", quantity="none")
<i>LongId</i>	scanNumber (description="the scan index", quantity="none")
<i>LongId</i>	iter (description="the iter number", quantity="none")
<i>DoubleId</i>	chiSquare (description="the chiSquare value of each timeline signal", quantity="none")
<i>BoolId</i>	convergence (description="the convergence status of each timeline signal", quantity="none")
<i>LongId</i>	numberL2Flags (description="the number of Level2 Delitch is detected", quantity="none")
<i>DoubleId</i>	a0 (description=" the 0th parameter of the polynomial fitting", quantity="none")
<i>IntId</i>	deselected (description="the detector timeline is deselected", quantity="none")

5.4.3. SPIRE Product Level 2 - Destriper Diagnostic Product

<i>product (type="PDD", description="Destriper Diagnostic Product")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	type (description="Product Type Identification", quantity="arcsec/year")
StringParameter	description (description="Name of this product", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
StringParameter	arrayName (description="Name of bolometer array", quantity="arcsec/year")

<i>Columns</i>	
<i>table dataset</i>	(<i>name="PMWDiagnosticTable", description="Diagnostic Tabledataset for Destriper"</i>)
<i>Metadata</i>	
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	arrayName (description="Name of bolometer array")
DoubleParameter	chiSquareAll (description="Sum of chiSquares")
LongParameter	validTimelines (description="Total number of valid signal timelines in Level1")
LongParameter	convergedTimelines (description="Total number of converged signal timelines")
DoubleParameter	iterThresh (description="Threshold used to determine chiSquare convergence")
LongParameter	maxIter (description="Maximum number of iterations")
LongParameter	pGrade (description="Polynomial degree")
<i>Columns</i>	
<i>StringId</i>	channelName (description="the name of detectors", quantity="none")
<i>IntId</i>	detIndex (description="the detector index", quantity="none")
<i>LongId</i>	scanNumber (description="the scan index", quantity="none")
<i>LongId</i>	iter (description="the iter number", quantity="none")
<i>DoubleId</i>	chiSquare (description="the chiSquare value of each timeline signal", quantity="none")
<i>BoolId</i>	convergence (description="the convergence status of each timeline signal", quantity="none")
<i>LongId</i>	numberL2Flags (description="the number of Level2 Delitch is detected", quantity="none")
<i>DoubleId</i>	a0 (description=" the 0th parameter of the polynomial fitting", quantity="none")
<i>IntId</i>	deselected (description="the detector timeline is deselected", quantity="none")

5.4.4. SPIRE Product Level 2 - Destriper Diagnostic Product

<i>product (type="PDD", description="Destriper Diagnostic Product")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")

LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	type (description="Product Type Identification", quantity="arcsec/year")
StringParameter	description (description="Name of this product", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
StringParameter	arrayName (description="Name of bolometer array", quantity="arcsec/year")
<i>Columns</i>	
<i>table dataset</i>	<i>(name="PSWDiagnosticTable", description="Diagnostic Tabledataset for Destriper")</i>
<i>Metadata</i>	
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	arrayName (description="Name of bolometer array")
DoubleParameter	chiSquareAll (description="Sum of chiSquares")
LongParameter	validTimelines (description="Total number of valid signal timelines in Level1")
LongParameter	convergedTimelines (description="Total number of converged signal timelines")

DoubleParameter	iterThresh (description="Threshold used to determine chiSquare convergence")
LongParameter	maxIter (description="Maximum number of iterations")
LongParameter	pGrade (description="Polynomial degree")
<i>Columns</i>	
<i>StringId</i>	channelName (description="the name of detectors", quantity="none")
<i>IntId</i>	detIndex (description="the detector index", quantity="none")
<i>LongId</i>	scanNumber (description="the scan index", quantity="none")
<i>LongId</i>	iter (description="the iter number", quantity="none")
<i>DoubleId</i>	chiSquare (description="the chiSquare value of each timeline signal", quantity="none")
<i>BoolId</i>	convergence (description="the convergence status of each timeline signal", quantity="none")
<i>LongId</i>	numberL2Flags (description="the number of Level2 Delitch is detected", quantity="none")
<i>DoubleId</i>	a0 (description=" the 0th parameter of the polynomial fitting", quantity="none")
<i>IntId</i>	deselected (description="the detector timeline is deselected", quantity="none")

5.4.5. SPIRE Product Level 2 - PLW map

<i>product (type="PMP", description="PLW map")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	telescope (description="Name of telescope")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")

StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	calVersion (description="Calibration version", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="arcsec/year")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar", quantity="arcsec/year")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar", quantity="arcsec/year")
StringParameter	arrayName (description="Name of bolometer array", quantity="arcsec/year")
StringParameter	unit (description="null", quantity="arcsec/year")
DoubleParameter	ratioInvalidSamplesInTimeline (description="Fraction of NaN or infinite samples", quantity="arcsec/year")
DoubleParameter	ratioInvalidCoordsInTimeline (description="Fraction of NaN or infinite coordinates", quantity="arcsec/year")
LongParameter	nDataSamples (description="Number of data samples propogated in the creation of this Tod", quantity="arcsec/year")
LongParameter	firstSample (description="null", quantity="arcsec/year")
LongParameter	lastSample (description="null", quantity="arcsec/year")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel", quantity="arcsec/year")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel", quantity="arcsec/year")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle", quantity="arcsec/year")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle", quantity="arcsec/year")
StringParameter	cctype1 (description="WCS: Projection type axis 1, default="LINEAR"", quantity="arcsec/year")
StringParameter	cctype2 (description="WCS: Projection type axis 2, default="LINEAR"", quantity="arcsec/year")

DoubleParameter	crota2 (description="The Rotation angle", quantity="arcsec/year")	
LongParameter	naxis1 (description="null", quantity="arcsec/year")	
LongParameter	naxis2 (description="null", quantity="arcsec/year")	
DoubleParameter	wavelength (description="The reference wavelength at which the image is taken", quantity="micrometer")	
<i>Columns</i>		
<i>array dataset</i>	(description="Image")	
<i>Metadata</i>		
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")	
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")	
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")	
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")	
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")	
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")	
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")	
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")	
DoubleParameter	equinox (description="WCS: Equinox, unit=Duration")	
DoubleParameter	crota2 (description="The Rotation angle")	
<i>Columns</i>		
<i>Double2d</i>	(description="Image", quantity="Jy/beam")	
	()	
<i>array dataset</i>	Dataset similar to the one above with (name="error", description="Statistical error on the pixel values")	
	()	
<i>array dataset</i>	Dataset similar to the one above with (name="coverage", description="Coverage")	

5.4.6. SPIRE Product Level 2 - PMW map

<i>product (type="PMP", description="PMW map")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	telescope (description="Name of telescope")
StringParameter	object (description="Target name")

StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	calVersion (description="Calibration version", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="arcsec/year")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar", quantity="arcsec/year")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar", quantity="arcsec/year")
StringParameter	arrayName (description="Name of bolometer array", quantity="arcsec/year")
StringParameter	unit (description="null", quantity="arcsec/year")
DoubleParameter	ratioInvalidSamplesInTimeline (description="Fraction of NaN or infinite samples", quantity="arcsec/year")
DoubleParameter	ratioInvalidCoordsInTimeline (description="Fraction of NaN or infinite coordinates", quantity="arcsec/year")
LongParameter	nDataSamples (description="Number of data samples propogated in the creation of this Tod", quantity="arcsec/year")
LongParameter	firstSample (description="null", quantity="arcsec/year")
LongParameter	lastSample (description="null", quantity="arcsec/year")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel", quantity="arcsec/year")

DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel", quantity="arcsec/year")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle", quantity="arcsec/year")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle", quantity="arcsec/year")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR"", quantity="arcsec/year")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR"", quantity="arcsec/year")
DoubleParameter	crota2 (description="The Rotation angle", quantity="arcsec/year")
LongParameter	naxis1 (description="null", quantity="arcsec/year")
LongParameter	naxis2 (description="null", quantity="arcsec/year")
DoubleParameter	wavelength (description="The reference wavelength at which the image is taken", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="Image")
<i>Metadata</i>	
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR"")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR"")
DoubleParameter	equinox (description="WCS: Equinox, unit=Duration")
DoubleParameter	crota2 (description="The Rotation angle")
<i>Columns</i>	
<i>Double2d</i>	(description="Image", quantity="Jy/beam")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="error", description="Statistical error on the pixel values")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="coverage", description="Coverage")

5.4.7. SPIRE Product Level 2 - PSW map

<i>product</i> (type="PMP", description="PSW map")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")

DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	telescope (description="Name of telescope")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	calVersion (description="Calibration version", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="arcsec/year")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar", quantity="arcsec/year")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar", quantity="arcsec/year")
StringParameter	arrayName (description="Name of bolometer array", quantity="arcsec/year")
StringParameter	unit (description="null", quantity="arcsec/year")

DoubleParameter	ratioInvalidSamplesInTimeline (description="Fraction of NaN or infinite samples", quantity="arcsec/year")
DoubleParameter	ratioInvalidCoordsInTimeline (description="Fraction of NaN or infinite coordinates", quantity="arcsec/year")
LongParameter	nDataSamples (description="Number of data samples propagated in the creation of this Tod", quantity="arcsec/year")
LongParameter	firstSample (description="null", quantity="arcsec/year")
LongParameter	lastSample (description="null", quantity="arcsec/year")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel", quantity="arcsec/year")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel", quantity="arcsec/year")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle", quantity="arcsec/year")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle", quantity="arcsec/year")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR"", quantity="arcsec/year")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR"", quantity="arcsec/year")
DoubleParameter	crota2 (description="The Rotation angle", quantity="arcsec/year")
LongParameter	naxis1 (description="null", quantity="arcsec/year")
LongParameter	naxis2 (description="null", quantity="arcsec/year")
DoubleParameter	wavelength (description="The reference wavelength at which the image is taken", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="Image")
<i>Metadata</i>	
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR"")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR"")
DoubleParameter	equinox (description="WCS: Equinox, unit=Duration")
DoubleParameter	crota2 (description="The Rotation angle")
<i>Columns</i>	
<i>Double2d</i>	(description="Image", quantity="Jy/beam")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="error", description="Statistical error on the pixel values")
	()

<i>array dataset</i>	Dataset similar to the one above with (name="coverage", description="Coverage")

5.4.8. SPIRE Product Level 2 - Final zero-level corrected extended calibrated map

<i>product (type="PXMP", description="Final zero-level corrected extended calibrated map")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	telescope (description="Name of telescope")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")

StringParameter	origin (description="Site that created the product", quantity="arcsec a-1")
StringParameter	calVersion (description="Calibration version", quantity="arcsec a-1")
StringParameter	level (description="The level of the product", quantity="arcsec a-1")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="arcsec a-1")
StringParameter	scanSpeed (description="Speed of scan", quantity="arcsec a-1")
DoubleParameter	scanVelocity (description="Constant speed of the spacecraft during scanline", quantity="arcsec/s")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar", quantity="arcsec/s")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar", quantity="arcsec/s")
StringParameter	arrayName (description="Name of bolometer array", quantity="arcsec/s")
StringParameter	unit (description="Unit of the signal", quantity="arcsec/s")
DoubleParameter	ratioInvalidSamplesInTimeline (description="Fraction of NaN or infinite samples", quantity="arcsec/s")
DoubleParameter	ratioInvalidCoordsInTimeline (description="Fraction of NaN or infinite coordinates", quantity="arcsec/s")
LongParameter	nDataSamples (description="Number of data samples propagated in the creation of this Tod", quantity="arcsec/s")
LongParameter	firstSample (description="null", quantity="arcsec/s")
LongParameter	lastSample (description="null", quantity="arcsec/s")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel", quantity="arcsec/s")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel", quantity="arcsec/s")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle", quantity="arcsec/s")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle", quantity="arcsec/s")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR", quantity="arcsec/s")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR", quantity="arcsec/s")
DoubleParameter	crota2 (description="The Rotation angle", quantity="arcsec/s")
LongParameter	naxis1 (description="null", quantity="arcsec/s")
LongParameter	naxis2 (description="null", quantity="arcsec/s")
DoubleParameter	wavelength (description="The reference wavelength at which the image is taken", quantity="micrometer")
StringParameter	hfi545 (description="HFI 545 GHz file used", quantity="micrometer")
StringParameter	hfi857 (description="HFI 857 GHz file used", quantity="micrometer")
StringParameter	hfiColor (description="HFI-SPIRE colour correction version used", quantity="micrometer")
DoubleParameter	zPointOffset (description="Offset added to SPIRE image as obtained from cross-calibration with Planck", quantity="MJy sr-1")
DoubleParameter	zPointStDev (description="Standard deviation of difference map between HFI and SPIRE maps as obtained from cross-calibration with Planck", quantity="MJy sr-1")

<i>Columns</i>	
<i>array dataset</i>	(<i>description="Image"</i>)
<i>Metadata</i>	
DoubleParameter	crpix1 (<i>description="WCS: Reference pixel position axis 1, unit=Scalar"</i>)
DoubleParameter	crpix2 (<i>description="WCS: Reference pixel position axis 2, unit=Scalar"</i>)
DoubleParameter	crval1 (<i>description="WCS: First coordinate of reference pixel"</i>)
DoubleParameter	crval2 (<i>description="WCS: Second coordinate of reference pixel"</i>)
DoubleParameter	cdelt1 (<i>description="WCS: Pixel scale axis 1, unit=Angle"</i>)
DoubleParameter	cdelt2 (<i>description="WCS: Pixel scale axis 2, unit=Angle"</i>)
StringParameter	ctype1 (<i>description="WCS: Projection type axis 1, default="LINEAR'"</i>)
StringParameter	ctype2 (<i>description="WCS: Projection type axis 2, default="LINEAR'"</i>)
DoubleParameter	equinox (<i>description="WCS: Equinox, unit=Duration"</i>)
DoubleParameter	crota2 (<i>description="The Rotation angle"</i>)
<i>Columns</i>	
<i>Double2d</i>	(<i>description="Image", quantity="MJy/sr"</i>)
	()
<i>array dataset</i>	Dataset similar to the one above with (<i>name="error", description="Statistical error on the pixel values"</i>)
	()
<i>array dataset</i>	Dataset similar to the one above with (<i>name="coverage", description="Coverage"</i>)

5.4.9. SPIRE Product Level 2 - Point-source calibrated map

<i>product (type="PMP", description="Point-source calibrated map")</i>	
<i>Metadata</i>	
StringParameter	type (<i>description="Product Type Identification"</i>)
StringParameter	creator (<i>description="Generator of this product"</i>)
DateParameter	creationDate (<i>description="Creation date of this product"</i>)
StringParameter	description (<i>description="Name of this product"</i>)
StringParameter	instrument (<i>description="Instrument attached to this product"</i>)
StringParameter	modelName (<i>description="Model name attached to this product"</i>)
DateParameter	startDate (<i>description="Start date of this product"</i>)
DateParameter	endDate (<i>description="End date of this product"</i>)
StringParameter	formatVersion (<i>description="Version of product format"</i>)
StringParameter	telescope (<i>description="Name of telescope"</i>)
StringParameter	object (<i>description="Target name"</i>)
StringParameter	observer (<i>description="Observer name"</i>)
StringParameter	proposal (<i>description="Proposal name"</i>)
LongParameter	obsid (<i>description="Observation identifier"</i>)

LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
StringParameter	origin (description="Site that created the product", quantity="arcsec a-1")
StringParameter	calVersion (description="Calibration version", quantity="arcsec a-1")
StringParameter	level (description="The level of the product", quantity="arcsec a-1")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="arcsec a-1")
StringParameter	scanSpeed (description="Speed of scan", quantity="arcsec a-1")
DoubleParameter	scanVelocity (description="Constant speed of the spacecraft during scanline", quantity="arcsec/s")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar", quantity="arcsec/s")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar", quantity="arcsec/s")
StringParameter	arrayName (description="Name of bolometer array", quantity="arcsec/s")
StringParameter	unit (description="null", quantity="arcsec/s")
DoubleParameter	ratioInvalidSamplesInTimeline (description="Fraction of NaN or infinite samples", quantity="arcsec/s")
DoubleParameter	ratioInvalidCoordsInTimeline (description="Fraction of NaN or infinite coordinates", quantity="arcsec/s")
LongParameter	nDataSamples (description="Number of data samples propagated in the creation of this Tod", quantity="arcsec/s")
LongParameter	firstSample (description="null", quantity="arcsec/s")
LongParameter	lastSample (description="null", quantity="arcsec/s")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel", quantity="arcsec/s")

DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel", quantity="arcsec/s")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle", quantity="arcsec/s")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle", quantity="arcsec/s")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR"", quantity="arcsec/s")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR"", quantity="arcsec/s")
DoubleParameter	crota2 (description="The Rotation angle", quantity="arcsec/s")
LongParameter	naxis1 (description="null", quantity="arcsec/s")
LongParameter	naxis2 (description="null", quantity="arcsec/s")
DoubleParameter	wavelength (description="The reference wavelength at which the image is taken", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="Image")
<i>Metadata</i>	
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR"")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR"")
DoubleParameter	equinox (description="WCS: Equinox, unit=Duration")
DoubleParameter	crota2 (description="The Rotation angle")
<i>Columns</i>	
<i>Double2d</i>	(description="Image", quantity="Jy/beam")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="error", description="Statistical error on the pixel values")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="coverage", description="Coverage")

5.4.10. SPIRE Product Level 2 - Motion corrected SSO map

<i>product (type="ssoPMP", description="Motion corrected SSO map")</i>	
<i>Metadata</i>	
StringParameter	type (description="null")
StringParameter	creator (description="Generator of this product")

DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	telescope (description="Name of telescope")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
StringParameter	origin (description="Site that created the product", quantity="arcsec a-1")
StringParameter	calVersion (description="Calibration version", quantity="arcsec a-1")
StringParameter	level (description="The level of the product", quantity="arcsec a-1")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="arcsec a-1")
StringParameter	scanSpeed (description="Speed of scan", quantity="arcsec a-1")
DoubleParameter	scanVelocity (description="Constant speed of the spacecraft during scanline", quantity="arcsec/s")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar", quantity="arcsec/s")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar", quantity="arcsec/s")

StringParameter	arrayName (description="Name of bolometer array", quantity="arcsec/s")
StringParameter	unit (description="null", quantity="arcsec/s")
DoubleParameter	ratioInvalidSamplesInTimeline (description="Fraction of NaN or infinite samples", quantity="arcsec/s")
DoubleParameter	ratioInvalidCoordsInTimeline (description="Fraction of NaN or infinite coordinates", quantity="arcsec/s")
LongParameter	nDataSamples (description="Number of data samples propagated in the creation of this Tod", quantity="arcsec/s")
LongParameter	firstSample (description="null", quantity="arcsec/s")
LongParameter	lastSample (description="null", quantity="arcsec/s")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel", quantity="arcsec/s")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel", quantity="arcsec/s")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle", quantity="arcsec/s")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle", quantity="arcsec/s")
StringParameter	cctype1 (description="WCS: Projection type axis 1, default="LINEAR"", quantity="arcsec/s")
StringParameter	cctype2 (description="WCS: Projection type axis 2, default="LINEAR"", quantity="arcsec/s")
DoubleParameter	crota2 (description="The Rotation angle", quantity="arcsec/s")
LongParameter	naxis1 (description="null", quantity="arcsec/s")
LongParameter	naxis2 (description="null", quantity="arcsec/s")
DoubleParameter	wavelength (description="The reference wavelength at which the image is taken", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="Image")
<i>Metadata</i>	
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	cctype1 (description="WCS: Projection type axis 1, default="LINEAR"")
StringParameter	cctype2 (description="WCS: Projection type axis 2, default="LINEAR"")
DoubleParameter	equinox (description="WCS: Equinox, unit=Duration")
DoubleParameter	crota2 (description="The Rotation angle")
<i>Columns</i>	
<i>Double2d</i>	(description="Image", quantity="Jy/beam")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="error", description="Statistical error on the pixel values")
	()

<i>array dataset</i>	Dataset similar to the one above with (name="coverage", description="Coverage")

5.4.11. SPIRE Product Level 3 - Browse Product

<i>product (type="BROWSE", description="Browse Product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
StringParameter	level (description="The level of the product")
StringParameter	telescope (description="Name of telescope")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
StringParameter	origin (description="Site that created the product")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline")
StringParameter	calVersion (description="Version of the cal tree")
StringParameter	aperture (description="Instrument aperture in use")
BooleanParameter	coolerBurpDetected (description="Indicates a cooler burp")
BooleanParameter	coolerBurpCorrected (description="Indicate the status of the cooler burp correction.")
DoubleParameter	solarAspectAngleMean (description="Mean Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="RMS Solar Aspect Angle", quantity="deg")
StringParameter	processingParams (description="All the observation identifiers, separated by commas, involved in the production of level 2.5/level 3 products", quantity="deg")
LongParameter	obsid001 (description="Observation identifier", quantity="deg")
LongParameter	obsid002 (description="Observation identifier", quantity="deg")
LongParameter	obsid003 (description="Observation identifier", quantity="deg")
LongParameter	obsid004 (description="Observation identifier", quantity="deg")
LongParameter	obsid005 (description="Observation identifier", quantity="deg")

LongParameter	obsid090 (description="Observation identifier", quantity="deg")
LongParameter	obsid091 (description="Observation identifier", quantity="deg")
LongParameter	obsid092 (description="Observation identifier", quantity="deg")
LongParameter	obsid093 (description="Observation identifier", quantity="deg")
LongParameter	obsid094 (description="Observation identifier", quantity="deg")
LongParameter	obsid095 (description="Observation identifier", quantity="deg")
LongParameter	obsid096 (description="Observation identifier", quantity="deg")
LongParameter	obsid097 (description="Observation identifier", quantity="deg")
LongParameter	obsid098 (description="Observation identifier", quantity="deg")
LongParameter	obsid099 (description="Observation identifier", quantity="deg")
LongParameter	obsid100 (description="Observation identifier", quantity="deg")
LongParameter	obsid101 (description="Observation identifier", quantity="deg")
LongParameter	obsid102 (description="Observation identifier", quantity="deg")
LongParameter	obsid103 (description="Observation identifier", quantity="deg")
LongParameter	obsid104 (description="Observation identifier", quantity="deg")
LongParameter	obsid105 (description="Observation identifier", quantity="deg")
LongParameter	obsid106 (description="Observation identifier", quantity="deg")
LongParameter	obsid107 (description="Observation identifier", quantity="deg")
LongParameter	obsid108 (description="Observation identifier", quantity="deg")
LongParameter	obsid109 (description="Observation identifier", quantity="deg")
DoubleParameter	ra (description="RA of map central pixel", quantity="deg")
DoubleParameter	dec (description="DEC of map central pixel", quantity="deg")
StringParameter	fileName (description="file name", quantity="deg")
<i>Columns</i>	
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
DoubleParameter	crota2 (description="The Rotation angle")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	equinox (description="WCS: Equinox, unit=Duration")
LongParameter	flipy (description="The y-axis should be flipped")
<i>Columns</i>	
<i>Byte2d</i>	(description="null", quantity="none")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="green", description="null")

	()
<i>array dataset</i>	Dataset similar to the one above with (name="blue", description="null")

5.4.12. SPIRE Product Level 3 - Level-3 mosaic product

<i>product (type="PXMP", description="Level-3 mosaic product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
StringParameter	telescope (description="Name of telescope")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="WCS: Equinox, unit=Duration")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="RA of map central pixel")
DoubleParameter	dec (description="DEC of map central pixel")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	calVersion (description="Version of the cal tree", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar", quantity="arcsec/year")

DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar", quantity="arcsec/year")
StringParameter	arrayName (description="Name of bolometer array", quantity="arcsec/year")
StringParameter	unit (description="Unit of the signal", quantity="arcsec/year")
DoubleParameter	ratioInvalidSamplesInTimeline (description="Fraction of NaN or infinite samples", quantity="arcsec/year")
DoubleParameter	ratioInvalidCoordsInTimeline (description="Fraction of NaN or infinite coordinates", quantity="arcsec/year")
LongParameter	nDataSamples (description="Number of data samples propogated in the creation of this Tod", quantity="arcsec/year")
LongParameter	firstSample (description="null", quantity="arcsec/year")
LongParameter	lastSample (description="null", quantity="arcsec/year")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel", quantity="arcsec/year")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel", quantity="arcsec/year")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle", quantity="arcsec/year")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle", quantity="arcsec/year")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR"", quantity="arcsec/year")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR"", quantity="arcsec/year")
DoubleParameter	crota2 (description="The Rotation angle", quantity="arcsec/year")
LongParameter	naxis1 (description="null", quantity="arcsec/year")
LongParameter	naxis2 (description="null", quantity="arcsec/year")
DoubleParameter	wavelength (description="The reference wavelength at which the image is taken", quantity="micrometer")
StringParameter	hfi545 (description="HFI 545 GHz file used", quantity="micrometer")
StringParameter	hfi857 (description="HFI 857 GHz file used", quantity="micrometer")
StringParameter	hfiColor (description="HFI-SPIRE colour correction version used", quantity="micrometer")
DoubleParameter	zPointOffset (description="Offset added to SPIRE image as obtained from cross-calibration with Planck", quantity="MJy sr-1")
DoubleParameter	zPointStDev (description="Standard deviation of difference map between HFI and SPIRE maps as obtained from cross-calibration with Planck", quantity="MJy sr-1")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation", quantity="MJy sr-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="MJy sr-1")
StringParameter	aperture (description="Instrument aperture in use", quantity="MJy sr-1")
BooleanParameter	coolerBurpDetected (description="Indicates a cooler burp", quantity="MJy sr-1")
BooleanParameter	coolerBurpCorrected (description="Indicate the status of the cooler burp correction.", quantity="MJy sr-1")

DoubleParameter	solarAspectAngleMean (description="Mean Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="RMS Solar Aspect Angle", quantity="deg")
StringParameter	processingParams (description="All the observation identifiers, separated by commas, involved in the production of level 2.5/level 3 products", quantity="deg")
LongParameter	obsid001 (description="Observation identifier", quantity="deg")
LongParameter	obsid002 (description="Observation identifier", quantity="deg")
LongParameter	obsid003 (description="Observation identifier", quantity="deg")
LongParameter	obsid004 (description="Observation identifier", quantity="deg")
LongParameter	obsid005 (description="Observation identifier", quantity="deg")
LongParameter	obsid006 (description="Observation identifier", quantity="deg")
LongParameter	obsid007 (description="Observation identifier", quantity="deg")
LongParameter	obsid008 (description="Observation identifier", quantity="deg")
LongParameter	obsid009 (description="Observation identifier", quantity="deg")
LongParameter	obsid010 (description="Observation identifier", quantity="deg")
LongParameter	obsid011 (description="Observation identifier", quantity="deg")
LongParameter	obsid012 (description="Observation identifier", quantity="deg")
LongParameter	obsid013 (description="Observation identifier", quantity="deg")
LongParameter	obsid014 (description="Observation identifier", quantity="deg")
LongParameter	obsid015 (description="Observation identifier", quantity="deg")
LongParameter	obsid016 (description="Observation identifier", quantity="deg")
LongParameter	obsid017 (description="Observation identifier", quantity="deg")
LongParameter	obsid018 (description="Observation identifier", quantity="deg")
LongParameter	obsid019 (description="Observation identifier", quantity="deg")
LongParameter	obsid020 (description="Observation identifier", quantity="deg")
LongParameter	obsid021 (description="Observation identifier", quantity="deg")
LongParameter	obsid022 (description="Observation identifier", quantity="deg")
LongParameter	obsid023 (description="Observation identifier", quantity="deg")
LongParameter	obsid024 (description="Observation identifier", quantity="deg")
LongParameter	obsid025 (description="Observation identifier", quantity="deg")
LongParameter	obsid026 (description="Observation identifier", quantity="deg")
LongParameter	obsid027 (description="Observation identifier", quantity="deg")
LongParameter	obsid028 (description="Observation identifier", quantity="deg")
LongParameter	obsid029 (description="Observation identifier", quantity="deg")
LongParameter	obsid030 (description="Observation identifier", quantity="deg")
LongParameter	obsid031 (description="Observation identifier", quantity="deg")
LongParameter	obsid032 (description="Observation identifier", quantity="deg")
LongParameter	obsid033 (description="Observation identifier", quantity="deg")
LongParameter	obsid034 (description="Observation identifier", quantity="deg")
LongParameter	obsid035 (description="Observation identifier", quantity="deg")
LongParameter	obsid036 (description="Observation identifier", quantity="deg")

LongParameter	obsid079 (description="Observation identifier", quantity="deg")
LongParameter	obsid080 (description="Observation identifier", quantity="deg")
LongParameter	obsid081 (description="Observation identifier", quantity="deg")
LongParameter	obsid082 (description="Observation identifier", quantity="deg")
LongParameter	obsid083 (description="Observation identifier", quantity="deg")
LongParameter	obsid084 (description="Observation identifier", quantity="deg")
LongParameter	obsid085 (description="Observation identifier", quantity="deg")
LongParameter	obsid086 (description="Observation identifier", quantity="deg")
LongParameter	obsid087 (description="Observation identifier", quantity="deg")
LongParameter	obsid088 (description="Observation identifier", quantity="deg")
LongParameter	obsid089 (description="Observation identifier", quantity="deg")
LongParameter	obsid090 (description="Observation identifier", quantity="deg")
LongParameter	obsid091 (description="Observation identifier", quantity="deg")
LongParameter	obsid092 (description="Observation identifier", quantity="deg")
LongParameter	obsid093 (description="Observation identifier", quantity="deg")
LongParameter	obsid094 (description="Observation identifier", quantity="deg")
LongParameter	obsid095 (description="Observation identifier", quantity="deg")
LongParameter	obsid096 (description="Observation identifier", quantity="deg")
LongParameter	obsid097 (description="Observation identifier", quantity="deg")
LongParameter	obsid098 (description="Observation identifier", quantity="deg")
LongParameter	obsid099 (description="Observation identifier", quantity="deg")
LongParameter	obsid100 (description="Observation identifier", quantity="deg")
LongParameter	obsid101 (description="Observation identifier", quantity="deg")
LongParameter	obsid102 (description="Observation identifier", quantity="deg")
LongParameter	obsid103 (description="Observation identifier", quantity="deg")
LongParameter	obsid104 (description="Observation identifier", quantity="deg")
LongParameter	obsid105 (description="Observation identifier", quantity="deg")
LongParameter	obsid106 (description="Observation identifier", quantity="deg")
LongParameter	obsid107 (description="Observation identifier", quantity="deg")
LongParameter	obsid108 (description="Observation identifier", quantity="deg")
LongParameter	obsid109 (description="Observation identifier", quantity="deg")
StringParameter	fileName (description="file name", quantity="deg")
<i>Columns</i>	
<i>array</i>	(description="Image")
<i>dataset</i>	
<i>Metadata</i>	
StringParameter	cctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	cctype2 (description="WCS: Projection type axis 2, default="LINEAR")
DoubleParameter	crota2 (description="The Rotation angle")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")

DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	equinox (description="WCS: Equinox, unit=Duration")
LongParameter	flipy (description="The y-axis should be flipped")
<i>Columns</i>	
<i>Double2d</i>	(description="Image", quantity="MJy/sr")

5.4.13. SPIRE Product Level 2 - Photometry blue astrometrical map

<i>product (type="HPPPMAPB", description="Photometry blue astrometrical map")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
DoubleParameter	Apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
DoubleParameter	wavelength (description="Filter reference wavelength", quantity="micrometer")
LongParameter	phot_red_FailedSPUBuffer (description="null", quantity="micrometer")
LongParameter	phot_blue_FailedSPUBuffer (description="null", quantity="micrometer")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="micrometer")

LongParameter	RemovedSetTime (description="Number of removed Frames due to setTime command", quantity="micrometer")
StringParameter	level (description="Product level", quantity="micrometer")
LongParameter	obsid (description="Observation Identifier", quantity="micrometer")
LongParameter	obsType (description="Observation type", quantity="micrometer")
LongParameter	obsCount (description="Observation counter", quantity="micrometer")
StringParameter	camera (description="Camera", quantity="micrometer")
LongParameter	odNumber (description="Operational Day Number count", quantity="micrometer")
StringParameter	cusMode (description="line or range spectroscopy", quantity="micrometer")
StringParameter	instMode (description="Instrument Mode", quantity="micrometer")
StringParameter	obsMode (description="Observation mode name", quantity="micrometer")
StringParameter	processingMode (description="SPG pipeline processing mode selected", quantity="micrometer")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT", quantity="micrometer")
StringParameter	observer (description="Observer name", quantity="micrometer")
StringParameter	proposal (description="Proposal name", quantity="micrometer")
StringParameter	pointingMode (description="Pointing mode", quantity="micrometer")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="micrometer")
StringParameter	origin (description="Site that created the product", quantity="micrometer")
StringParameter	aorLabel (description="AOR Label as entered in HSpot", quantity="micrometer")
StringParameter	aot (description="AOT Identifier", quantity="micrometer")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="micrometer")
StringParameter	missionConfig (description="Mission configuration", quantity="micrometer")
StringParameter	object (description="Target name", quantity="micrometer")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="micrometer")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")

DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="Observation Mode", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	debug (description="???", quantity="km s-1")
BooleanParameter	isBrightPacs (description="HSPOT: bright source for PACS (true/false)", quantity="km s-1")
BooleanParameter	isBrightSpire (description="HSPOT: bright source for SPIRE (true/false)", quantity="km s-1")
BooleanParameter	mapOrientationArray (description="HSPOT: The map orientation reference frame is 'array' (rather than array with sky constraints) true/false", quantity="km s-1")
BooleanParameter	pBool1 (description="???", quantity="km s-1")
BooleanParameter	pBool2 (description="???", quantity="km s-1")
DoubleParameter	mapOffsetY (description="HSPOT: offset to observation position from target in Y direction", quantity="arcmin")
DoubleParameter	mapOffsetZ (description="HSPOT: offset to observation position from target in Z direction", quantity="arcmin")
DoubleParameter	mapOrientationConFrom (description="HSPOT: Map orientation constraint lower limit", quantity="arcmin")
DoubleParameter	mapOrientationConTo (description="HSPOT: Map orientation constraint upper limit", quantity="arcmin")
DoubleParameter	mapSize1 (description="HSPOT: map length", quantity="arcmin")
DoubleParameter	mapSize2 (description="HSPOT: map height", quantity="arcmin")
DoubleParameter	pDouble1 (description="???", quantity="arcmin")
DoubleParameter	pDouble2 (description="???", quantity="arcmin")
LongParameter	pInt1 (description="???", quantity="arcmin")
LongParameter	pInt2 (description="???", quantity="arcmin")
StringParameter	blue (description="HSPOT: PACS blue filter selection (values blue1 or blue2)", quantity="arcmin")
StringParameter	bsmModel (description="???", quantity="arcmin")
StringParameter	bsmVersion (description="???", quantity="arcmin")
StringParameter	comVersion (description="???", quantity="arcmin")
StringParameter	flashVersion (description="???", quantity="arcmin")

StringParameter	mapScanRate (description="HSPOT: map scan rate (fast / slow)", quantity="arcmin")
StringParameter	opsVersion (description="???", quantity="arcmin")
StringParameter	pString1 (description="???", quantity="arcmin")
StringParameter	pString2 (description="???", quantity="arcmin")
StringParameter	photVersion (description="???", quantity="arcmin")
StringParameter	scanDirection (description="HSPOT: map scan direction (nominal / orthogonal)", quantity="arcmin")
StringParameter	spireVersion (description="???", quantity="arcmin")
DateParameter	odStartTime (description="Operational Day start time", quantity="arcmin")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="arcmin")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="arcmin")
DoubleParameter	BOL_VD_B_1 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_1 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_2 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_2 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_3 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_3 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_4 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_4 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_R_1 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_R_1 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_R_2 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_R_2 (description="null", quantity="arcmin")
DoubleParameter	mapScanVelocity (description="Nominal scanning velocity", quantity="arcsec s-1")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
StringParameter	bandUsedForRaDec (description="Band used in PhotAssignRaDec", quantity="deg")
DoubleParameter	infoPhotBlueGlitchRate (description="Percentage of blue photometer deglitched pixels in science blocks above threshold", quantity="deg")

StringParameter	Glitch treatment (description="This parameter describes, how the Second Level Deglitch Task has treated glitches.", quantity="deg")
DoubleParameter	infoPhotSciBlueSaturationRate (description="Percentage of blue photometer saturated pixels in science blocks above threshold", quantity="deg")
DoubleParameter	infoPhotBlueNotFlaggedBad (description="Percentage of pixels used for the projection for the Blue detector", quantity="deg")
StringParameter	mapper (description="Mapper used to generate this product", quantity="deg")
DoubleParameter	pixfrac (description="Pixel drop fraction used in the final projection", quantity="deg")
DoubleParameter	pixSize (description="Output pixel size used in the final projection", quantity="arcsec")
DoubleParameter	hpfRad (description="High-pass filter optional parameter: high-pass filter radius", quantity="arcsec")
<i>Columns</i>	
<i>array dataset</i>	(description="Image")
<i>Metadata</i>	
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
DoubleParameter	crota2 (description="The Rotation angle")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
StringParameter	flipy (description="FLIPY parameter ensures North to be displayed upwards in Display")
DoubleParameter	equinox (description="WCS: Equinox, unit=Duration")
<i>Columns</i>	
<i>Double2d</i>	(description="Image", quantity="Jy/pixel")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="HPFmask", description="Highpass filtering mask")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="error", description="Statistical error on the pixel values")

5.4.14. SPIRE Product Level 2 - Photometry red astrometrical map

product (type="HPPPMAPR", description="Photometry red astrometrical map")

<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
DoubleParameter	Apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1:BoIRed 2:BoIBlue 3:SpecRed 4:SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
DoubleParameter	wavelength (description="Filter reference wavelength", quantity="micrometer")
LongParameter	phot_red_FailedSPUBuffer (description="null", quantity="micrometer")
LongParameter	phot_blue_FailedSPUBuffer (description="null", quantity="micrometer")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="micrometer")
LongParameter	RemovedSetTime (description="Number of removed Frames due to setTime command", quantity="micrometer")
StringParameter	level (description="Product level", quantity="micrometer")
LongParameter	obsid (description="Observation Identifier", quantity="micrometer")
LongParameter	obsType (description="Observation type", quantity="micrometer")
LongParameter	obsCount (description="Observation counter", quantity="micrometer")
StringParameter	camera (description="Camera", quantity="micrometer")
LongParameter	odNumber (description="Operational Day Number count", quantity="micrometer")
StringParameter	cusMode (description="line or range spectroscopy", quantity="micrometer")
StringParameter	instMode (description="Instrument Mode", quantity="micrometer")
StringParameter	obsMode (description="Observation mode name", quantity="micrometer")
StringParameter	processingMode (description="SPG pipeline processing mode selected", quantity="micrometer")

StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT", quantity="micrometer")
StringParameter	observer (description="Observer name", quantity="micrometer")
StringParameter	proposal (description="Proposal name", quantity="micrometer")
StringParameter	pointingMode (description="Pointing mode", quantity="micrometer")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="micrometer")
StringParameter	origin (description="Site that created the product", quantity="micrometer")
StringParameter	aorLabel (description="AOR Label as entered in HSpot", quantity="micrometer")
StringParameter	aot (description="AOT Identifier", quantity="micrometer")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="micrometer")
StringParameter	missionConfig (description="Mission configuration", quantity="micrometer")
StringParameter	object (description="Target name", quantity="micrometer")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="micrometer")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="Observation Mode", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	debug (description="???", quantity="km s-1")

BooleanParameter	isBrightPacs (description="HSPOT: bright source for PACS (true/false)", quantity="km s-1")
BooleanParameter	isBrightSpire (description="HSPOT: bright source for SPIRE (true/false)", quantity="km s-1")
BooleanParameter	mapOrientationArray (description="HSPOT: The map orientation reference frame is 'array' (rather than array with sky constraints) true/false", quantity="km s-1")
BooleanParameter	pBool1 (description="???", quantity="km s-1")
BooleanParameter	pBool2 (description="???", quantity="km s-1")
DoubleParameter	mapOffsetY (description="HSPOT: offset to observation position from target in Y direction", quantity="arcmin")
DoubleParameter	mapOffsetZ (description="HSPOT: offset to observation position from target in Z direction", quantity="arcmin")
DoubleParameter	mapOrientationConFrom (description="HSPOT: Map orientation constraint lower limit", quantity="arcmin")
DoubleParameter	mapOrientationConTo (description="HSPOT: Map orientation constraint upper limit", quantity="arcmin")
DoubleParameter	mapSize1 (description="HSPOT: map length", quantity="arcmin")
DoubleParameter	mapSize2 (description="HSPOT: map height", quantity="arcmin")
DoubleParameter	pDouble1 (description="???", quantity="arcmin")
DoubleParameter	pDouble2 (description="???", quantity="arcmin")
LongParameter	pInt1 (description="???", quantity="arcmin")
LongParameter	pInt2 (description="???", quantity="arcmin")
StringParameter	blue (description="HSPOT: PACS blue filter selection (values blue1 or blue2)", quantity="arcmin")
StringParameter	bsmModel (description="???", quantity="arcmin")
StringParameter	bsmVersion (description="???", quantity="arcmin")
StringParameter	comVersion (description="???", quantity="arcmin")
StringParameter	flashVersion (description="???", quantity="arcmin")
StringParameter	mapScanRate (description="HSPOT: map scan rate (fast / slow)", quantity="arcmin")
StringParameter	opsVersion (description="???", quantity="arcmin")
StringParameter	pString1 (description="???", quantity="arcmin")
StringParameter	pString2 (description="???", quantity="arcmin")
StringParameter	photVersion (description="???", quantity="arcmin")
StringParameter	scanDirection (description="HSPOT: map scan direction (nominal / orthogonal)", quantity="arcmin")
StringParameter	spireVersion (description="???", quantity="arcmin")
DateParameter	odStartTime (description="Operational Day start time", quantity="arcmin")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="arcmin")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="arcmin")
DoubleParameter	BOL_VD_B_1 (description="null", quantity="arcmin")

BooleanParameter	BOL_VU_B_1 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_2 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_2 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_3 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_3 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_4 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_4 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_R_1 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_R_1 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_R_2 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_R_2 (description="null", quantity="arcmin")
DoubleParameter	mapScanVelocity (description="Nominal scanning velocity", quantity="arcsec s-1")
LongParameter	sliceNumber (description="Slice number", quantity="arcsec s-1")
BooleanParameter	isInterlaced (description="null", quantity="arcsec s-1")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
DoubleParameter	infoPhotRedGlitchRate (description="Percentage of red photometer deglitched pixels in science blocks above threshold", quantity="deg")
StringParameter	Glitch treatment (description="This parameter describes, how the Second Level Deglitch Task has treated glitches.", quantity="deg")
DoubleParameter	infoPhotSciRedSaturationRate (description="Percentage of red photometer saturated pixels in science blocks above threshold", quantity="deg")
DoubleParameter	infoPhotRedNotFlaggedBad (description="Percentage of pixels used for the projection for the Red detector", quantity="deg")
StringParameter	mapper (description="Mapper used to generate this product", quantity="deg")
DoubleParameter	pixfrac (description="Pixel drop fraction used in the final projection", quantity="deg")
DoubleParameter	pixSize (description="Output pixel size used in the final projection", quantity="arcsec")
DoubleParameter	hpfRad (description="High-pass filter optional parameter: high-pass filter radius", quantity="arcsec")
<i>Columns</i>	
<i>array dataset</i>	(description="Image")
<i>Metadata</i>	
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")

DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
DoubleParameter	crota2 (description="The Rotation angle")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
StringParameter	flipy (description="FLIPY parameter ensures North to be displayed upwards in Display")
DoubleParameter	equinox (description="WCS: Equinox, unit=Duration")
<i>Columns</i>	
<i>Double2d</i>	(description="Image", quantity="Jy/pixel")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="HPFmask", description="Highpass filtering mask")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="error", description="Statistical error on the pixel values")

5.4.15. SPIRE Product Level 2.5 - Photometry blue high-pass filter map

<i>product (type="HPPHPFMAB", description="Photometry blue high-pass filter map")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
DoubleParameter	Apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")

DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
DoubleParameter	wavelength (description="Filter reference wavelength", quantity="micrometer")
LongParameter	phot_red_FailedSPUBuffer (description="null", quantity="micrometer")
LongParameter	phot_blue_FailedSPUBuffer (description="null", quantity="micrometer")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="micrometer")
LongParameter	RemovedSetTime (description="Number of removed Frames due to setTime command", quantity="micrometer")
StringParameter	level (description="Product level", quantity="micrometer")
LongParameter	obsType (description="Observation type", quantity="micrometer")
LongParameter	obsCount (description="Observation counter", quantity="micrometer")
StringParameter	camera (description="Camera", quantity="micrometer")
LongParameter	odNumber (description="Operational Day Number count", quantity="micrometer")
StringParameter	cusMode (description="line or range spectroscopy", quantity="micrometer")
StringParameter	instMode (description="Instrument Mode", quantity="micrometer")
StringParameter	obsMode (description="Observation mode name", quantity="micrometer")
StringParameter	processingMode (description="SPG pipeline processing mode selected", quantity="micrometer")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT", quantity="micrometer")
StringParameter	observer (description="Observer name", quantity="micrometer")
StringParameter	proposal (description="Proposal name", quantity="micrometer")
StringParameter	pointingMode (description="Pointing mode", quantity="micrometer")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="micrometer")
StringParameter	origin (description="Site that created the product", quantity="micrometer")
StringParameter	aorLabel (description="AOR Label as entered in HSpot", quantity="micrometer")
StringParameter	aot (description="AOT Identifier", quantity="micrometer")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="micrometer")
StringParameter	missionConfig (description="Mission configuration", quantity="micrometer")
StringParameter	object (description="Target name", quantity="micrometer")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="micrometer")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")

DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="Observation Mode", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	debug (description="???", quantity="km s-1")
BooleanParameter	isBrightPacs (description="HSPOT: bright source for PACS (true/false)", quantity="km s-1")
BooleanParameter	isBrightSpire (description="HSPOT: bright source for SPIRE (true/false)", quantity="km s-1")
BooleanParameter	mapOrientationArray (description="HSPOT: The map orientation reference frame is 'array' (rather than array with sky constraints) true/false", quantity="km s-1")
BooleanParameter	pBool1 (description="???", quantity="km s-1")
BooleanParameter	pBool2 (description="???", quantity="km s-1")
DoubleParameter	mapOffsetY (description="HSPOT: offset to observation position from target in Y direction", quantity="arcmin")
DoubleParameter	mapOffsetZ (description="HSPOT: offset to observation position from target in Z direction", quantity="arcmin")
DoubleParameter	mapOrientationConFrom (description="HSPOT: Map orientation constraint lower limit", quantity="arcmin")
DoubleParameter	mapOrientationConTo (description="HSPOT: Map orientation constraint upper limit", quantity="arcmin")
DoubleParameter	mapSize1 (description="HSPOT: map length", quantity="arcmin")

DoubleParameter	mapSize2 (description="HSPOT: map height", quantity="arcmin")
DoubleParameter	pDouble1 (description="???", quantity="arcmin")
DoubleParameter	pDouble2 (description="???", quantity="arcmin")
LongParameter	pInt1 (description="???", quantity="arcmin")
LongParameter	pInt2 (description="???", quantity="arcmin")
StringParameter	blue (description="HSPOT: PACS blue filter selection (values blue1 or blue2)", quantity="arcmin")
StringParameter	bsmModel (description="???", quantity="arcmin")
StringParameter	bsmVersion (description="???", quantity="arcmin")
StringParameter	comVersion (description="???", quantity="arcmin")
StringParameter	flashVersion (description="???", quantity="arcmin")
StringParameter	mapScanRate (description="HSPOT: map scan rate (fast / slow)", quantity="arcmin")
StringParameter	opsVersion (description="???", quantity="arcmin")
StringParameter	pString1 (description="???", quantity="arcmin")
StringParameter	pString2 (description="???", quantity="arcmin")
StringParameter	photVersion (description="???", quantity="arcmin")
StringParameter	scanDirection (description="HSPOT: map scan direction (nominal / orthogonal)", quantity="arcmin")
StringParameter	spireVersion (description="???", quantity="arcmin")
DateParameter	odStartTime (description="Operational Day start time", quantity="arcmin")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="arcmin")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="arcmin")
DoubleParameter	BOL_VD_B_1 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_1 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_2 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_2 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_3 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_3 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_4 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_4 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_R_1 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_R_1 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_R_2 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_R_2 (description="null", quantity="arcmin")
DoubleParameter	mapScanVelocity (description="Nominal scanning velocity", quantity="arcsec s ⁻¹ ")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")

BooleanParameter	isInterlaced (description="null", quantity="deg")
StringParameter	bandUsedForRaDec (description="Band used in PhotAssignRaDec", quantity="deg")
DoubleParameter	infoPhotBlueGlitchRate (description="Percentage of blue photometer deglitched pixels in science blocks above threshold", quantity="deg")
StringParameter	Glitch treatment (description="This parameter describes, how the Second Level Deglitch Task has treated glitches.", quantity="deg")
DoubleParameter	infoPhotSciBlueSaturationRate (description="Percentage of blue photometer saturated pixels in science blocks above threshold", quantity="deg")
DoubleParameter	infoPhotBlueNotFlaggedBad (description="Percentage of pixels used for the projection for the Blue detector", quantity="deg")
StringParameter	mapper (description="Mapper used to generate this product", quantity="deg")
DoubleParameter	pixfrac (description="Pixel drop fraction used in the final projection", quantity="deg")
DoubleParameter	pixSize (description="Output pixel size used in the final projection", quantity="arcsec")
DoubleParameter	hpfRad (description="High-pass filter optional parameter: high-pass filter radius", quantity="arcsec")
LongParameter	obsid001 (description="null", quantity="arcsec")
LongParameter	obsid002 (description="null", quantity="arcsec")
StringParameter	fileName (description="FITS filename for this product", quantity="arcsec")
<i>Columns</i>	
<i>array dataset</i>	(description="Image")
<i>Metadata</i>	
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
LongParameter	flipy (description="The y-axis should be flipped")
<i>Columns</i>	
<i>Double2d</i>	(description="Image", quantity="Jy/pixel")

5.4.16. SPIRE Product Level 2.5 - Photometry red high-pass filter map

<i>product</i> (type="HPPHPFMAPR", description="Photometry red high-pass filter map")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")

DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
DoubleParameter	apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
DoubleParameter	wavelength (description="Filter reference wavelength", quantity="micrometer")
LongParameter	phot_red_FailedSPUBuffer (description="null", quantity="micrometer")
LongParameter	phot_blue_FailedSPUBuffer (description="null", quantity="micrometer")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="micrometer")
LongParameter	RemovedSetTime (description="Number of removed Frames due to setTime command", quantity="micrometer")
StringParameter	level (description="Product level", quantity="micrometer")
LongParameter	obsType (description="Observation type", quantity="micrometer")
LongParameter	obsCount (description="Observation counter", quantity="micrometer")
StringParameter	camera (description="Camera", quantity="micrometer")
LongParameter	odNumber (description="Operational Day Number count", quantity="micrometer")
StringParameter	cusMode (description="line or range spectroscopy", quantity="micrometer")
StringParameter	instMode (description="Instrument Mode", quantity="micrometer")
StringParameter	obsMode (description="Observation mode name", quantity="micrometer")
StringParameter	processingMode (description="SPG pipeline processing mode selected", quantity="micrometer")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT", quantity="micrometer")
StringParameter	observer (description="Observer name", quantity="micrometer")
StringParameter	proposal (description="Proposal name", quantity="micrometer")

StringParameter	pointingMode (description="Pointing mode", quantity="micrometer")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="micrometer")
StringParameter	origin (description="Site that created the product", quantity="micrometer")
StringParameter	aorLabel (description="AOR Label as entered in HSpot", quantity="micrometer")
StringParameter	aot (description="AOT Identifier", quantity="micrometer")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="micrometer")
StringParameter	missionConfig (description="Mission configuration", quantity="micrometer")
StringParameter	object (description="Target name", quantity="micrometer")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="micrometer")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="Observation Mode", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	debug (description="???", quantity="km s-1")
BooleanParameter	isBrightPacs (description="HSPOT: bright source for PACS (true/false)", quantity="km s-1")

BooleanParameter	isBrightSpire (description="HSPOT: bright source for SPIRE (true/false)", quantity="km s-1")
BooleanParameter	mapOrientationArray (description="HSPOT: The map orientation reference frame is 'array' (rather than array with sky constraints) true/false", quantity="km s-1")
BooleanParameter	pBool1 (description="???", quantity="km s-1")
BooleanParameter	pBool2 (description="???", quantity="km s-1")
DoubleParameter	mapOffsetY (description="HSPOT: offset to observation position from target in Y direction", quantity="arcmin")
DoubleParameter	mapOffsetZ (description="HSPOT: offset to observation position from target in Z direction", quantity="arcmin")
DoubleParameter	mapOrientationConFrom (description="HSPOT: Map orientation constraint lower limit", quantity="arcmin")
DoubleParameter	mapOrientationConTo (description="HSPOT: Map orientation constraint upper limit", quantity="arcmin")
DoubleParameter	mapSize1 (description="HSPOT: map length", quantity="arcmin")
DoubleParameter	mapSize2 (description="HSPOT: map height", quantity="arcmin")
DoubleParameter	pDouble1 (description="???", quantity="arcmin")
DoubleParameter	pDouble2 (description="???", quantity="arcmin")
LongParameter	pInt1 (description="???", quantity="arcmin")
LongParameter	pInt2 (description="???", quantity="arcmin")
StringParameter	blue (description="HSPOT: PACS blue filter selection (values blue1 or blue2)", quantity="arcmin")
StringParameter	bsmModel (description="???", quantity="arcmin")
StringParameter	bsmVersion (description="???", quantity="arcmin")
StringParameter	comVersion (description="???", quantity="arcmin")
StringParameter	flashVersion (description="???", quantity="arcmin")
StringParameter	mapScanRate (description="HSPOT: map scan rate (fast / slow)", quantity="arcmin")
StringParameter	opsVersion (description="???", quantity="arcmin")
StringParameter	pString1 (description="???", quantity="arcmin")
StringParameter	pString2 (description="???", quantity="arcmin")
StringParameter	photVersion (description="???", quantity="arcmin")
StringParameter	scanDirection (description="HSPOT: map scan direction (nominal / orthogonal)", quantity="arcmin")
StringParameter	spireVersion (description="???", quantity="arcmin")
DateParameter	odStartTime (description="Operational Day start time", quantity="arcmin")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="arcmin")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="arcmin")
DoubleParameter	BOL_VD_B_1 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_1 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_2 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_2 (description="null", quantity="arcmin")

DoubleParameter	BOL_VD_B_3 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_3 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_4 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_4 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_R_1 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_R_1 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_R_2 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_R_2 (description="null", quantity="arcmin")
DoubleParameter	mapScanVelocity (description="Nominal scanning velocity", quantity="arcsec s-1")
LongParameter	sliceNumber (description="Slice number", quantity="arcsec s-1")
BooleanParameter	isInterlaced (description="null", quantity="arcsec s-1")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
DoubleParameter	infoPhotRedGlitchRate (description="Percentage of red photometer deglitched pixels in science blocks above threshold", quantity="deg")
StringParameter	Glitch treatment (description="This parameter describes, how the Second Level Deglitch Task has treated glitches.", quantity="deg")
DoubleParameter	infoPhotSciRedSaturationRate (description="Percentage of red photometer saturated pixels in science blocks above threshold", quantity="deg")
DoubleParameter	infoPhotRedNotFlaggedBad (description="Percentage of pixels used for the projection for the Red detector", quantity="deg")
StringParameter	mapper (description="Mapper used to generate this product", quantity="deg")
DoubleParameter	pixfrac (description="Pixel drop fraction used in the final projection", quantity="deg")
DoubleParameter	pixSize (description="Output pixel size used in the final projection", quantity="arcsec")
DoubleParameter	hpfRad (description="High-pass filter optional parameter: high-pass filter radius", quantity="arcsec")
LongParameter	obsid001 (description="null", quantity="arcsec")
LongParameter	obsid002 (description="null", quantity="arcsec")
StringParameter	fileName (description="FITS filename for this product", quantity="arcsec")
<i>Columns</i>	
<i>array dataset</i>	(description="Image")
<i>Metadata</i>	
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")

DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
LongParameter	flipy (description="The y-axis should be flipped")
Columns	
Double2d	(description="Image", quantity="Jy/pixel")

5.4.17. SPIRE Product Level 2.5 - Photometry blue JS-canam map

<i>product (type="HPPJSMAPB", description="Photometry blue JScanam map")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
DoubleParameter	Apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
DoubleParameter	wavelength (description="Filter reference wavelength", quantity="micrometer")
LongParameter	phot_red_FailedSPUBuffer (description="null", quantity="micrometer")
LongParameter	phot_blue_FailedSPUBuffer (description="null", quantity="micrometer")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="micrometer")
LongParameter	RemovedSetTime (description="Number of removed Frames due to setTime command", quantity="micrometer")
StringParameter	level (description="Product level", quantity="micrometer")
LongParameter	obsType (description="Observation type", quantity="micrometer")

LongParameter	obsCount (description="Observation counter", quantity="micrometer")
StringParameter	camera (description="Camera", quantity="micrometer")
LongParameter	odNumber (description="Operational Day Number count", quantity="micrometer")
StringParameter	cusMode (description="line or range spectroscopy", quantity="micrometer")
StringParameter	instMode (description="Instrument Mode", quantity="micrometer")
StringParameter	obsMode (description="Observation mode name", quantity="micrometer")
StringParameter	processingMode (description="SPG pipeline processing mode selected", quantity="micrometer")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT", quantity="micrometer")
StringParameter	observer (description="Observer name", quantity="micrometer")
StringParameter	proposal (description="Proposal name", quantity="micrometer")
StringParameter	pointingMode (description="Pointing mode", quantity="micrometer")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="micrometer")
StringParameter	origin (description="Site that created the product", quantity="micrometer")
StringParameter	aorLabel (description="AOR Label as entered in HSpot", quantity="micrometer")
StringParameter	aot (description="AOT Identifier", quantity="micrometer")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="micrometer")
StringParameter	missionConfig (description="Mission configuration", quantity="micrometer")
StringParameter	object (description="Target name", quantity="micrometer")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="micrometer")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")

LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="Observation Mode", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	debug (description="???", quantity="km s-1")
BooleanParameter	isBrightPacs (description="HSPOT: bright source for PACS (true/false)", quantity="km s-1")
BooleanParameter	isBrightSpire (description="HSPOT: bright source for SPIRE (true/false)", quantity="km s-1")
BooleanParameter	mapOrientationArray (description="HSPOT: The map orientation reference frame is 'array' (rather than array with sky constraints) true/false", quantity="km s-1")
BooleanParameter	pBool1 (description="???", quantity="km s-1")
BooleanParameter	pBool2 (description="???", quantity="km s-1")
DoubleParameter	mapOffsetY (description="HSPOT: offset to observation position from target in Y direction", quantity="arcmin")
DoubleParameter	mapOffsetZ (description="HSPOT: offset to observation position from target in Z direction", quantity="arcmin")
DoubleParameter	mapOrientationConFrom (description="HSPOT: Map orientation constraint lower limit", quantity="arcmin")
DoubleParameter	mapOrientationConTo (description="HSPOT: Map orientation constraint upper limit", quantity="arcmin")
DoubleParameter	mapSize1 (description="HSPOT: map length", quantity="arcmin")
DoubleParameter	mapSize2 (description="HSPOT: map height", quantity="arcmin")
DoubleParameter	pDouble1 (description="???", quantity="arcmin")
DoubleParameter	pDouble2 (description="???", quantity="arcmin")
LongParameter	pInt1 (description="???", quantity="arcmin")
LongParameter	pInt2 (description="???", quantity="arcmin")
StringParameter	blue (description="HSPOT: PACS blue filter selection (values blue1 or blue2)", quantity="arcmin")
StringParameter	bsmModel (description="???", quantity="arcmin")
StringParameter	bsmVersion (description="???", quantity="arcmin")
StringParameter	comVersion (description="???", quantity="arcmin")
StringParameter	flashVersion (description="???", quantity="arcmin")
StringParameter	mapScanRate (description="HSPOT: map scan rate (fast / slow)", quantity="arcmin")
StringParameter	opsVersion (description="???", quantity="arcmin")
StringParameter	pString1 (description="???", quantity="arcmin")
StringParameter	pString2 (description="???", quantity="arcmin")
StringParameter	photVersion (description="???", quantity="arcmin")

StringParameter	scanDirection (description="HSPOT: map scan direction (nominal / orthogonal)", quantity="arcmin")
StringParameter	spireVersion (description="???", quantity="arcmin")
DateParameter	odStartTime (description="Operational Day start time", quantity="arcmin")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="arcmin")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="arcmin")
DoubleParameter	BOL_VD_B_1 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_1 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_2 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_2 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_3 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_3 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_4 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_4 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_R_1 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_R_1 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_R_2 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_R_2 (description="null", quantity="arcmin")
DoubleParameter	mapScanVelocity (description="Nominal scanning velocity", quantity="arcsec s-1")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
StringParameter	bandUsedForRaDec (description="Band used in PhotAssignRaDec", quantity="deg")
LongParameter	obsid001 (description="null", quantity="deg")
LongParameter	obsid002 (description="null", quantity="deg")
StringParameter	mapper (description="Mapper used to generate this product", quantity="deg")
DoubleParameter	pixfrac (description="Pixel drop fraction used in the final projection", quantity="deg")
DoubleParameter	pixSize (description="Output pixel size used in the final projection", quantity="arcsec")
BooleanParameter	jsGalac (description="JScaman optional parameter: galactic", quantity="arcsec")
StringParameter	fileName (description="FITS filename for this product", quantity="arcsec")
<i>Columns</i>	
<i>array dataset</i>	(description="Image")
<i>Metadata</i>	
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")

StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
DoubleParameter	crota2 (description="The Rotation angle")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
StringParameter	flipy (description="FLIPY parameter ensures North to be displayed upwards in Display")
DoubleParameter	equinox (description="WCS: Equinox, unit=Duration")
<i>Columns</i>	
<i>Double2d</i>	(description="Image", quantity="Jy/pixel")

5.4.18. SPIRE Product Level 2.5 - Photometry red JS-canam map

<i>product (type="HPPJSMAPR", description="Photometry red JScanam map")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
DoubleParameter	Apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")

StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
DoubleParameter	wavelength (description="Filter reference wavelength", quantity="micrometer")
LongParameter	phot_red_FailedSPUBuffer (description="null", quantity="micrometer")
LongParameter	phot_blue_FailedSPUBuffer (description="null", quantity="micrometer")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="micrometer")
LongParameter	RemovedSetTime (description="Number of removed Frames due to setTime command", quantity="micrometer")
StringParameter	level (description="Product level", quantity="micrometer")
LongParameter	obsType (description="Observation type", quantity="micrometer")
LongParameter	obsCount (description="Observation counter", quantity="micrometer")
StringParameter	camera (description="Camera", quantity="micrometer")
LongParameter	odNumber (description="Operational Day Number count", quantity="micrometer")
StringParameter	cusMode (description="line or range spectroscopy", quantity="micrometer")
StringParameter	instMode (description="Instrument Mode", quantity="micrometer")
StringParameter	obsMode (description="Observation mode name", quantity="micrometer")
StringParameter	processingMode (description="SPG pipeline processing mode selected", quantity="micrometer")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT", quantity="micrometer")
StringParameter	observer (description="Observer name", quantity="micrometer")
StringParameter	proposal (description="Proposal name", quantity="micrometer")
StringParameter	pointingMode (description="Pointing mode", quantity="micrometer")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="micrometer")
StringParameter	origin (description="Site that created the product", quantity="micrometer")
StringParameter	aorLabel (description="AOR Label as entered in HSpot", quantity="micrometer")
StringParameter	aot (description="AOT Identifier", quantity="micrometer")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="micrometer")
StringParameter	missionConfig (description="Mission configuration", quantity="micrometer")
StringParameter	object (description="Target name", quantity="micrometer")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="micrometer")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")

DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v/c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="Observation Mode", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	debug (description="???", quantity="km s-1")
BooleanParameter	isBrightPacs (description="HSPOT: bright source for PACS (true/false)", quantity="km s-1")
BooleanParameter	isBrightSpire (description="HSPOT: bright source for SPIRE (true/false)", quantity="km s-1")
BooleanParameter	mapOrientationArray (description="HSPOT: The map orientation reference frame is 'array' (rather than array with sky constraints) true/false", quantity="km s-1")
BooleanParameter	pBool1 (description="???", quantity="km s-1")
BooleanParameter	pBool2 (description="???", quantity="km s-1")
DoubleParameter	mapOffsetY (description="HSPOT: offset to observation position from target in Y direction", quantity="arcmin")
DoubleParameter	mapOffsetZ (description="HSPOT: offset to observation position from target in Z direction", quantity="arcmin")
DoubleParameter	mapOrientationConFrom (description="HSPOT: Map orientation constraint lower limit", quantity="arcmin")
DoubleParameter	mapOrientationConTo (description="HSPOT: Map orientation constraint upper limit", quantity="arcmin")
DoubleParameter	mapSize1 (description="HSPOT: map length", quantity="arcmin")
DoubleParameter	mapSize2 (description="HSPOT: map height", quantity="arcmin")
DoubleParameter	pDouble1 (description="???", quantity="arcmin")
DoubleParameter	pDouble2 (description="???", quantity="arcmin")
LongParameter	pInt1 (description="???", quantity="arcmin")

LongParameter	pInt2 (description="???", quantity="arcmin")
StringParameter	blue (description="HSPOT: PACS blue filter selection (values blue1 or blue2)", quantity="arcmin")
StringParameter	bsmModel (description="???", quantity="arcmin")
StringParameter	bsmVersion (description="???", quantity="arcmin")
StringParameter	comVersion (description="???", quantity="arcmin")
StringParameter	flashVersion (description="???", quantity="arcmin")
StringParameter	mapScanRate (description="HSPOT: map scan rate (fast / slow)", quantity="arcmin")
StringParameter	opsVersion (description="???", quantity="arcmin")
StringParameter	pString1 (description="???", quantity="arcmin")
StringParameter	pString2 (description="???", quantity="arcmin")
StringParameter	photVersion (description="???", quantity="arcmin")
StringParameter	scanDirection (description="HSPOT: map scan direction (nominal / orthogonal)", quantity="arcmin")
StringParameter	spireVersion (description="???", quantity="arcmin")
DateParameter	odStartTime (description="Operational Day start time", quantity="arcmin")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="arcmin")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="arcmin")
DoubleParameter	BOL_VD_B_1 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_1 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_2 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_2 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_3 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_3 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_4 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_4 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_R_1 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_R_1 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_R_2 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_R_2 (description="null", quantity="arcmin")
DoubleParameter	mapScanVelocity (description="Nominal scanning velocity", quantity="arcsec s-1")
LongParameter	sliceNumber (description="Slice number", quantity="arcsec s-1")
BooleanParameter	isInterlaced (description="null", quantity="arcsec s-1")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	obsid001 (description="null", quantity="deg")
LongParameter	obsid002 (description="null", quantity="deg")
StringParameter	mapper (description="Mapper used to generate this product", quantity="deg")

DoubleParameter	pixfrac (description="Pixel drop fraction used in the final projection", quantity="deg")		
DoubleParameter	pixSize (description="Output pixel size used in the final projection", quantity="arcsec")		
BooleanParameter	jsGalac (description="JScaman optional parameter: galactic", quantity="arcsec")		
StringParameter	fileName (description="FITS filename for this product", quantity="arcsec")		
<i>Columns</i>			
<i>array dataset</i>	(description="Image")		
<i>Metadata</i>			
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")		
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")		
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")		
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")		
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")		
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")		
DoubleParameter	crota2 (description="The Rotation angle")		
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")		
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")		
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")		
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")		
StringParameter	flipy (description="FLIPY parameter ensures North to be displayed upwards in Display")		
DoubleParameter	equinox (description="WCS: Equinox, unit=Duration")		
<i>Columns</i>			
<i>Double2d</i>	(description="Image", quantity="Jy/pixel")		

5.4.19. SPIRE Product Level 2.5 - Photometry blue Unimap map

<i>product (type="HPPUNIMAPB", description="Photometry blue Unimap map")</i>			
<i>Meta- data</i>			
StringParameter	type (description="Product Type Identification")		
StringParameter	creator (description="Generator of this product")		
DateParameter	creationDate (description="Creation date of this product")		
StringParameter	description (description="Name of this product")		
StringParameter	instrument (description="Instrument attached to this product")		

StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
DoubleParameter	Apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1: BolRed 2: BolBlue 3: SpecRed 4: SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
DoubleParameter	wavelength (description="Filter reference wavelength", quantity="micrometer")
LongParameter	phot_red_FailedSPUBuffer (description="null", quantity="micrometer")
LongParameter	phot_blue_FailedSPUBuffer (description="null", quantity="micrometer")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="micrometer")
LongParameter	RemovedSetTime (description="Number of removed Frames due to setTime command", quantity="micrometer")
StringParameter	level (description="Product level", quantity="micrometer")
LongParameter	obsType (description="Observation type", quantity="micrometer")
LongParameter	obsCount (description="Observation counter", quantity="micrometer")

StringParameter	camera (description="Camera", quantity="micrometer")
LongParameter	odNumber (description="Operational Day Number count", quantity="micrometer")
StringParameter	cusMode (description="line or range spectroscopy", quantity="micrometer")
StringParameter	instMode (description="Instrument Mode", quantity="micrometer")
StringParameter	obsMode (description="Observation mode name", quantity="micrometer")
StringParameter	processingMode (description="SPG pipeline processing mode selected", quantity="micrometer")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT", quantity="micrometer")
StringParameter	observer (description="Observer name", quantity="micrometer")
StringParameter	proposal (description="Proposal name", quantity="micrometer")
StringParameter	pointingMode (description="Pointing mode", quantity="micrometer")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="micrometer")
StringParameter	origin (description="Site that created the product", quantity="micrometer")
StringParameter	aorLabel (description="AOR Label as entered in HSpot", quantity="micrometer")
StringParameter	aot (description="AOT Identifier", quantity="micrometer")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="micrometer")
StringParameter	missionConfig (description="Mission configuration", quantity="micrometer")
StringParameter	object (description="Target name", quantity="micrometer")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="micrometer")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")

DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="Observation Mode", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	debug (description="???", quantity="km s-1")
BooleanParameter	isBrightPacs (description="HSPOT: bright source for PACS (true/false)", quantity="km s-1")
BooleanParameter	isBrightSpire (description="HSPOT: bright source for SPIRE (true/false)", quantity="km s-1")
BooleanParameter	mapOrientationArray (description="HSPOT: The map orientation reference frame is 'array' (rather than array with sky constraints) true/false", quantity="km s-1")
BooleanParameter	pBool1 (description="???", quantity="km s-1")
BooleanParameter	pBool2 (description="???", quantity="km s-1")
DoubleParameter	mapOffsetY (description="HSPOT: offset to observation position from target in Y direction", quantity="arcmin")
DoubleParameter	mapOffsetZ (description="HSPOT: offset to observation position from target in Z direction", quantity="arcmin")
DoubleParameter	mapOrientationConFrom (description="HSPOT: Map orientation constraint lower limit", quantity="arcmin")
DoubleParameter	mapOrientationConTo (description="HSPOT: Map orientation constraint upper limit", quantity="arcmin")

DoubleParameter	mapSize1 (description="HSPOT: map length", quantity="arcmin")
DoubleParameter	mapSize2 (description="HSPOT: map height", quantity="arcmin")
DoubleParameter	pDouble1 (description="???", quantity="arcmin")
DoubleParameter	pDouble2 (description="???", quantity="arcmin")
LongParameter	pInt1 (description="???", quantity="arcmin")
LongParameter	pInt2 (description="???", quantity="arcmin")
StringParameter	blue (description="HSPOT: PACS blue filter selection (values blue1 or blue2)", quantity="arcmin")
StringParameter	bsmModel (description="???", quantity="arcmin")
StringParameter	bsmVersion (description="???", quantity="arcmin")
StringParameter	comVersion (description="???", quantity="arcmin")
StringParameter	flashVersion (description="???", quantity="arcmin")
StringParameter	mapScanRate (description="HSPOT: map scan rate (fast / slow)", quantity="arcmin")
StringParameter	opsVersion (description="???", quantity="arcmin")
StringParameter	pString1 (description="???", quantity="arcmin")
StringParameter	pString2 (description="???", quantity="arcmin")
StringParameter	photVersion (description="???", quantity="arcmin")
StringParameter	scanDirection (description="HSPOT: map scan direction (nominal / orthogonal)", quantity="arcmin")
StringParameter	spireVersion (description="???", quantity="arcmin")
DateParameter	odStartTime (description="Operational Day start time", quantity="arcmin")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="arcmin")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="arcmin")
DoubleParameter	BOL_VD_B_1 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_1 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_2 (description="null", quantity="arcmin")

BooleanParameter	BOL_VU_B_2 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_3 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_3 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_4 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_4 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_R_1 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_R_1 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_R_2 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_R_2 (description="null", quantity="arcmin")
DoubleParameter	mapScanVelocity (description="Nominal scanning velocity", quantity="arcsec s-1")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	sliceNumber (description="Slice number", quantity="deg")
BooleanParameter	isInterlaced (description="null", quantity="deg")
StringParameter	bandUsedForRaDec (description="Band used in PhotAssignRaDec", quantity="deg")
LongParameter	obsid001 (description="null", quantity="deg")
LongParameter	obsid002 (description="null", quantity="deg")
StringParameter	mapper (description="Mapper used to generate this product", quantity="deg")
DoubleParameter	uniFiltS (description="Unimap optional parameter: filterSizeInArcsec", quantity="deg")
DoubleParameter	uniStImg (description="Unimap optional parameter: startImage", quantity="deg")
DoubleParameter	uniDWgls (description="Unimap optional parameter: wglSDThreshold", quantity="deg")
DoubleParameter	uniGWgls (description="Unimap optional parameter: wglGThreshold", quantity="deg")
DoubleParameter	pixfrac (description="Pixel drop fraction used in the final projection", quantity="deg")
DoubleParameter	pixSize (description="Output pixel size used in the final projection", quantity="arcsec")

StringParameter	fileName (description="FITS filename for this product", quantity="arcsec")
Columns	
array dataset	(description="Image")
Metadata	
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
DoubleParameter	equinox (description="WCS: Equinox, unit=Duration")
DoubleParameter	crota2 (description="The Rotation angle")
StringParameter	flipy (description="FLIPY parameter ensures North to be displayed upwards in Display")
Columns	
Double2d	(description="Image", quantity="Jy/pixel")
	()
array dataset	Dataset similar to the one above with (name="stDev", description="Naive map mean flux standard deviation")
	()
array dataset	Dataset similar to the one above with (name="coverage", description="Coverage")
	()
array dataset	Dataset similar to the one above with (name="pgls", description="pgls")
	()
array dataset	Dataset similar to the one above with (name="gls", description="gls")
	()
array dataset	Dataset similar to the one above with (name="naive", description="naive")

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5.4.20. SPIRE Product Level 2.5 - Photometry red Unimap map

<i>product (type="HPPUNIMAPR", description="Photometry red Unimap map")</i>	
<i>Metada- ta</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of the observation")
DateParameter	endDate (description="End date of the observation")
StringParameter	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Offset btwn PACS internal CRDC counter and on-board time")
DoubleParameter	Apid (description="Application Programme Identifier")
DoubleParameter	subType (description="HSPOT: Product subtype: 1:BolRed 2:BolBlue 3:SpecRed 4:SpecBlue")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")

DoubleParameter	dxid (description="HSPOT: Detector selection table identifier")
DoubleParameter	wavelength (description="Filter reference wavelength", quantity="micrometer")
LongParameter	phot_red_FailedSPUBuffer (description="null", quantity="micrometer")
LongParameter	phot_blue_FailedSPUBuffer (description="null", quantity="micrometer")
BooleanParameter	pacSliceInfoUpdated (description="PACS Slice Info keywords updated", quantity="micrometer")
LongParameter	RemovedSetTime (description="Number of removed Frames due to setTime command", quantity="micrometer")
StringParameter	level (description="Product level", quantity="micrometer")
LongParameter	obsType (description="Observation type", quantity="micrometer")
LongParameter	obsCount (description="Observation counter", quantity="micrometer")
StringParameter	camera (description="Camera", quantity="micrometer")
LongParameter	odNumber (description="Operational Day Number count", quantity="micrometer")
StringParameter	cusMode (description="line or range spectroscopy", quantity="micrometer")
StringParameter	instMode (description="Instrument Mode", quantity="micrometer")
StringParameter	obsMode (description="Observation mode name", quantity="micrometer")
StringParameter	processingMode (description="SPG pipeline processing mode selected", quantity="micrometer")
StringParameter	ConcatenatedOBSIDs (description="AORs concatenated with this obs in HSPOT", quantity="micrometer")
StringParameter	observer (description="Observer name", quantity="micrometer")
StringParameter	proposal (description="Proposal name", quantity="micrometer")
StringParameter	pointingMode (description="Pointing mode", quantity="micrometer")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="micrometer")
StringParameter	origin (description="Site that created the product", quantity="micrometer")
StringParameter	aorLabel (description="AOR Label as entered in HSpot", quantity="micrometer")
StringParameter	aot (description="AOT Identifier", quantity="micrometer")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="micrometer")

StringParameter	missionConfig (description="Mission configuration", quantity="micrometer")
StringParameter	object (description="Target name", quantity="micrometer")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="micrometer")
DoubleParameter	pmRA (description="Target's proper motion, RA", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion, Dec", quantity="arcsec a-1")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	ra (description="Average Right Ascension of the centre of this image/cube", quantity="deg")
DoubleParameter	dec (description="Average Declination of the centre of this image/cube", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="deg")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR: $v / c = (\lambda_{rest} - \lambda) / \lambda_{rest}$ ", quantity="km s-1")
StringParameter	calVersion (description="Version of calibration tree used", quantity="km s-1")
LongParameter	obsRequestId (description="Observation Request Identifier", quantity="km s-1")
LongParameter	obsRequestVersion (description="Observation Request Version", quantity="km s-1")
StringParameter	title (description="Title", quantity="km s-1")
StringParameter	target (description="Target", quantity="km s-1")
StringParameter	targetType (description="Target Type", quantity="km s-1")
StringParameter	subinstrument (description="Sub Instrument", quantity="km s-1")
StringParameter	observingMode (description="Observation Mode", quantity="km s-1")
LongParameter	overhead (description="Overhead", quantity="km s-1")
LongParameter	tslewmin (description="Minimum slew time", quantity="km s-1")
BooleanParameter	debug (description="???", quantity="km s-1")

BooleanParameter	isBrightPacs (description="HSPOT: bright source for PACS (true/false)", quantity="km s-1")
BooleanParameter	isBrightSpire (description="HSPOT: bright source for SPIRE (true/false)", quantity="km s-1")
BooleanParameter	mapOrientationArray (description="HSPOT: The map orientation reference frame is 'array' (rather than array with sky constraints) true/false", quantity="km s-1")
BooleanParameter	pBool1 (description="???", quantity="km s-1")
BooleanParameter	pBool2 (description="???", quantity="km s-1")
DoubleParameter	mapOffsetY (description="HSPOT: offset to observation position from target in Y direction", quantity="arcmin")
DoubleParameter	mapOffsetZ (description="HSPOT: offset to observation position from target in Z direction", quantity="arcmin")
DoubleParameter	mapOrientationConFrom (description="HSPOT: Map orientation constraint lower limit", quantity="arcmin")
DoubleParameter	mapOrientationConTo (description="HSPOT: Map orientation constraint upper limit", quantity="arcmin")
DoubleParameter	mapSize1 (description="HSPOT: map length", quantity="arcmin")
DoubleParameter	mapSize2 (description="HSPOT: map height", quantity="arcmin")
DoubleParameter	pDouble1 (description="???", quantity="arcmin")
DoubleParameter	pDouble2 (description="???", quantity="arcmin")
LongParameter	pInt1 (description="???", quantity="arcmin")
LongParameter	pInt2 (description="???", quantity="arcmin")
StringParameter	blue (description="HSPOT: PACS blue filter selection (values blue1 or blue2)", quantity="arcmin")
StringParameter	bsmModel (description="???", quantity="arcmin")
StringParameter	bsmVersion (description="???", quantity="arcmin")
StringParameter	comVersion (description="???", quantity="arcmin")
StringParameter	flashVersion (description="???", quantity="arcmin")
StringParameter	mapScanRate (description="HSPOT: map scan rate (fast / slow)", quantity="arcmin")
StringParameter	opsVersion (description="???", quantity="arcmin")
StringParameter	pString1 (description="???", quantity="arcmin")
StringParameter	pString2 (description="???", quantity="arcmin")

StringParameter	photVersion (description="???", quantity="arcmin")
StringParameter	scanDirection (description="HSPOT: map scan direction (nominal / orthogonal)", quantity="arcmin")
StringParameter	spireVersion (description="???", quantity="arcmin")
DateParameter	odStartTime (description="Operational Day start time", quantity="arcmin")
StringParameter	missionConfiguration (description="Mission Configuration", quantity="arcmin")
StringParameter	instrumentConfiguration (description="Instrument Configuration", quantity="arcmin")
DoubleParameter	BOL_VD_B_1 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_1 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_2 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_2 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_3 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_3 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_B_4 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_B_4 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_R_1 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_R_1 (description="null", quantity="arcmin")
DoubleParameter	BOL_VD_R_2 (description="null", quantity="arcmin")
BooleanParameter	BOL_VU_R_2 (description="null", quantity="arcmin")
DoubleParameter	mapScanVelocity (description="Nominal scanning velocity", quantity="arcsec s-1")
LongParameter	sliceNumber (description="Slice number", quantity="arcsec s-1")
BooleanParameter	isInterlaced (description="null", quantity="arcsec s-1")
DoubleParameter	solarAspectAngleMean (description="averaged Solar Aspect Angle", quantity="deg")
DoubleParameter	solarAspectAngleRms (description="standard deviation of the Solar Aspect Angle", quantity="deg")
LongParameter	obsid001 (description="null", quantity="deg")

LongParameter	obsid002 (description="null", quantity="deg")
StringParameter	mapper (description="Mapper used to generate this product", quantity="deg")
DoubleParameter	uniFiltS (description="Unimap optional parameter: filterSizeInArcsec", quantity="deg")
DoubleParameter	uniStImg (description="Unimap optional parameter: startImage", quantity="deg")
DoubleParameter	uniDWgls (description="Unimap optional parameter: wglSDThreshold", quantity="deg")
DoubleParameter	uniGWgls (description="Unimap optional parameter: wglGThreshold", quantity="deg")
DoubleParameter	pixfrac (description="Pixel drop fraction used in the final projection", quantity="deg")
DoubleParameter	pixSize (description="Output pixel size used in the final projection", quantity="arcsec")
StringParameter	fileName (description="FITS filename for this product", quantity="arcsec")
<i>Columns</i>	
<i>array dataset</i>	(description="Image")
<i>Metadata</i>	
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
DoubleParameter	equinox (description="WCS: Equinox, unit=Duration")
DoubleParameter	crota2 (description="The Rotation angle")
StringParameter	flipy (description="FLIPY parameter ensures North to be displayed upwards in Display")

<i>Columns</i>	
<i>Double2d</i>	(description="Image", quantity="Jy/pixel")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="stDev", description="Naive map mean flux standard deviation")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="coverage", description="Coverage")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="pgls", description="pgls")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="gls", description="gls")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="naive", description="naive")

5.4.21. SPIRE Product Level 2 - Jiggled Photometer Product

<i>product (type="JPP", description="Jiggled Photometer Product")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
DoubleParameter	biasFreq (description="Bias frequency", quantity="Hz")
StringParameter	elecSide (description="Electronic side", quantity="Hz")

StringParameter	modelName (description="Model name attached to this product", quantity="Hz")
StringParameter	formatVersion (description="Version of product format", quantity="Hz")
StringParameter	missionConfig (description="Mission configuration", quantity="Hz")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
StringParameter	origin (description="Site that created the product", quantity="arcsec/year")
StringParameter	type (description="Product Type Identification", quantity="arcsec/year")
StringParameter	description (description="Name of this product", quantity="arcsec/year")
StringParameter	calVersion (description="Calibration version", quantity="arcsec/year")
StringParameter	level (description="The level of the product", quantity="arcsec/year")
LongParameter	maskDead (description="Mask value for dead channel", quantity="arcsec/year")
LongParameter	maskMaster (description="Mask value for master bit", quantity="arcsec/year")
LongParameter	maskNoisy (description="Mask value for noisy channel", quantity="arcsec/year")
LongParameter	maskSlow (description="Mask value for slow channel", quantity="arcsec/year")
LongParameter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="arcsec/year")
LongParameter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="arcsec/year")
LongParameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="arcsec/year")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="arcsec/year")
LongParameter	maskGlitchL1Detected (description="Mask value for first level glitch detected", quantity="arcsec/year")
LongParameter	maskGlitchL1NotRemoved (description="Mask value for first level glitch detected and not removed", quantity="arcsec/year")
DoubleParameter	ratioSamplesOutOfCalibrationRangePSW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="arcsec/year")
LongParameter	numberBelowK3VoltagePSW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="arcsec/year")

DoubleParameter	ratioSamplesOutOfCalibrationRangePMW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="arcsec/year")
LongParameter	numberBelowK3VoltagePMW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="arcsec/year")
DoubleParameter	ratioSamplesOutOfCalibrationRangePLW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="arcsec/year")
LongParameter	numberBelowK3VoltagePLW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="arcsec/year")
LongParameter	maskVoltageOol (description="Mask value for voltage out of fitted range", quantity="arcsec/year")
LongParameter	maskVoltageBelowK3 (description="Mask value for voltage below K3", quantity="arcsec/year")
LongParameter	maskNoRespData (description="Mask value for voltage out of fitted range and/or below K3", quantity="arcsec/year")
LongParameter	maskNotChoppedToSky (description="Mask value for channel not chopped to sky", quantity="arcsec/year")
DoubleParameter	ratioPhotSecondLevelGlitchesPSW (description="Maximum ratio of number of 2nd-level flagged samples over number of data samples in the detectors of the PSW array", quantity="arcsec/year")
DoubleParameter	ratioPhotSecondLevelGlitchesPMW (description="Maximum ratio of number of 2nd-level flagged samples over number of data samples in the detectors of the PMW array", quantity="arcsec/year")
DoubleParameter	ratioPhotSecondLevelGlitchesPLW (description="Maximum ratio of number of 2nd-level flagged samples over number of data samples in the detectors of the PLW array", quantity="arcsec/year")
DoubleParameter	plwBiasAmpl (description="PLW bias amplitude", quantity="V")
DoubleParameter	pmwBiasAmpl (description="PMW bias amplitude", quantity="V")
DoubleParameter	pswBiasAmpl (description="PSW bias amplitude", quantity="V")
DoubleParameter	ptcBiasAmpl (description="PTC bias amplitude", quantity="V")
LongParameter	denodDropped (description="Number of incomplete integrations", quantity="V")
LongParameter	numberMissingPositions (description="Number of missing jiggle positions", quantity="V")
LongParameter	numberBsmJiggleSoftLimit (description="Number of bsm jiggle positions hitting the soft limit.", quantity="V")
LongParameter	numberBsmChopSoftLimit (description="Number of bsm chop positions hitting the soft limit.", quantity="V")
DoubleParameter	spireNodPointingUncertainty (description="Nod Pointing Uncertainty in arcsec", quantity="arcsec")
DoubleParameter	spireAverageNodPointingUncertainty (description="Average Nod Pointing Uncertainty in arcsec", quantity="arcsec")
DoubleParameter	ratioNodOutlierPSW (description="Fraction of 5 sigma outliers of the signal from the individual nod cycles for PSW array", quantity="arcsec")
DoubleParameter	ratioNodOutlierPMW (description="Fraction of 5 sigma outliers of the signal from the individual nod cycles for PMW array", quantity="arcsec")

DoubleParameter	ratioNodOutlierPLW (description="Fraction of 5 sigma outliers of the signal from the individual nod cycles for PLW array", quantity="arcsec")
DoubleParameter	chopCyclePositionUncertainty (description="Chopper Position Uncertainty adu", quantity="arcsec")
DoubleParameter	ratioPhotFirstLevelGlitchesPSW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the PSW array", quantity="arcsec")
DoubleParameter	ratioPhotFirstLevelGlitchesPMW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the PMW array", quantity="arcsec")
DoubleParameter	ratioPhotFirstLevelGlitchesPLW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the PLW array", quantity="arcsec")
DoubleParameter	spireAveragingPositionUncertainty (description="Chopper Position Uncertainty adu", quantity="arcsec")
LongParameter	nFitsPSW (description="null", quantity="arcsec")
LongParameter	nFitsPMW (description="null", quantity="arcsec")
LongParameter	nFitsPLW (description="null", quantity="arcsec")
DoubleParameter	pointSourceFluxDiffPSW (description="Ratio of the difference in the flux computed from the positive and negative images of the source on the PSW array over their mean value", quantity="arcsec")
BooleanParameter	pointSourceNegativeFluxPSWFlag (description="Negative flux measured for point source on PSW array", quantity="arcsec")
DoubleParameter	pointSourcePositionDiffPSWCommanded (description="Difference in the measured radial distance calculated from the RA and Dec on the PSW array and the commanded target position in arcsec", quantity="arcsec")
DoubleParameter	pointSourceFluxDiffPMW (description="Ratio of the difference in the flux computed from the positive and negative images of the source on the PMW array over their mean value", quantity="arcsec")
BooleanParameter	pointSourceNegativeFluxPMWFlag (description="Negative flux measured for point source on PMW array", quantity="arcsec")
DoubleParameter	pointSourcePositionDiffPMWCommanded (description="Difference in the measured radial distance calculated from the RA and Dec on the PMW array and the commanded target position in arcsec", quantity="arcsec")
DoubleParameter	pointSourceFluxDiffPLW (description="Ratio of the difference in the flux computed from the positive and negative images of the source on the PLW array over their mean value", quantity="arcsec")
BooleanParameter	pointSourceNegativeFluxPLWFlag (description="Negative flux measured for point source on PLW array", quantity="arcsec")
DoubleParameter	pointSourcePositionDiffPLWCommanded (description="Difference in the measured radial distance calculated from the RA and Dec on the PLW array and the commanded target position in arcsec", quantity="arcsec")
DoubleParameter	pointSourcePositionDiffPSWPMW (description="Difference in the radial distance calculated from the RA and Dec of the point source measured on the PSW and PMW arrays in arcsec", quantity="arcsec")
DoubleParameter	pointSourcePositionDiffPSWPLW (description="Difference in the radial distance calculated from the RA and Dec of the point source measured on the PSW and PLW arrays in arcsec", quantity="arcsec")

DoubleParameter	pointSourcePositionDiffPMWPLW (description="Difference in the radial distance calculated from the RA and Dec of the point source measured on the PMW and PLW arrays in arcsec", quantity="arcsec")		
Columns			
table dataset	(name="outputDataset", description="Contents")		
Metadata			
Columns			
StringId	arrayName	(description="null", quantity="none")	
DoubleId	ra	(description="Fitted Ra", quantity="deg")	
DoubleId	errRa	(description="Fitted Ra Error", quantity="deg")	
DoubleId	dec	(description="Fitted Dec", quantity="deg")	
DoubleId	errDec	(description="Fitted Dec Error", quantity="deg")	
DoubleId	wavelength	(description="null", quantity="micrometer")	
DoubleId	signal	(description="Fitted flux density", quantity="Jy")	
DoubleId	error	(description="Fitted flux density error", quantity="Jy")	
	()		
composite dataset	Dataset similar to the one above with (name="History", description="History of product")		

5.4.22. SPIRE Product Level 2 - Spectrometer Detector Spectrum

<i>product (type="SDS", description="Spectrometer Detector Spectrum")</i>	
Meta-data	
String-Parameter	telescope (description="Name of telescope")
String-Parameter	instrument (description="Instrument attached to this product")
String-Parameter	subsystem (description="Instrument Subsystem")
String-Parameter	source (description="TM source packet name")

String- Pa- ram- e- ter	creator (description="Generator of this product")
String- Pa- ram- e- ter	object (description="Target name")
String- Pa- ram- e- ter	observer (description="Observer name")
String- Pa- ram- e- ter	proposal (description="Proposal name")
Long- Pa- ram- e- ter	obsid (description="Observation identifier")
Long- Pa- ram- e- ter	odNumber (description="Operational day number")
DatePa- ram- e- ter	creationDate (description="Creation date of this product")
DatePa- ram- e- ter	startDate (description="Start date of this product")
DatePa- ram- e- ter	endDate (description="End date of this product")
String- Pa- ram- e- ter	aot (description="AOT Identifier")
String- Pa- ram- e- ter	aorLabel (description="AOR Label as entered in HSpot")

String- Pa- ram- e- ter	cusMode (description="CUS observation mode")
String- Pa- ram- e- ter	instMode (description="Instrument Mode")
String- Pa- ram- e- ter	obsMode (description="Observation mode name")
String- Pa- ram- e- ter	pointingMode (description="Pointing mode")
String- Pa- ram- e- ter	mapSampling (description="Spatial sampling of map")
String- Pa- ram- e- ter	biasMode (description="Bias mode")
Long- Pa- ram- e- ter	jiggId (description="Jiggle ID")
Long- Pa- ram- e- ter	pointNum (description="Pointing number")
Long- Pa- ram- e- ter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
Double- Pa- ram- e- ter	onSourceTime (description="Total on-source integration time for this observation", quantity="s")
String- Pa- ram-	commandedResolution (description="Commanded Spectral Resolution", quantity="s")

e- ter	
DoubleParameter	biasFreq (description="Bias frequency", quantity="Hz")
StringParameter	elecSide (description="Electronic side", quantity="Hz")
StringParameter	modelName (description="Model name attached to this product", quantity="Hz")
StringParameter	formatVersion (description="Version of product format", quantity="Hz")
StringParameter	missionConfig (description="Mission configuration", quantity="Hz")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")

ram- e- ter	
DoublePa- ram- e- ter	posAngle (description="Position Angle of pointing", quantity="deg")
DoublePa- ram- e- ter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoublePa- ram- e- ter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoublePa- ram- e- ter	raDecOffset (description="The offset between the commanded position and the actual reconstructed pointing, which includes any systematic BSM offset (bsmOffset), but not the APE.", quantity="arcsec")
DoublePa- ram- e- ter	bsmOffset (description="BSM offset position (0.0 or 1.7 arcsec), which is corrected for by the point-source calibration. This systematic offset is included in the raDecOffset value.", quantity="arcsec")
DoublePa- ram- e- ter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
String- Pa- ram- e- ter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
String- Pa- ram- e- ter	origin (description="Site that created the product", quantity="km s-1")
String- Pa- ram- e- ter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
String- Pa- ram- e- ter	type (description="Product Type Identification", quantity="km s-1")

String- Pa- ram- e- ter	description (description="Name of this product", quantity="km s-1")
String- Pa- ram- e- ter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="km s-1")
String- Pa- ram- e- ter	calVersion (description="Calibration version", quantity="km s-1")
String- Pa- ram- e- ter	level (description="The level of the product", quantity="km s-1")
String- Pa- ram- e- ter	processResolution (description="The resolution that is to be used or was used to process the data", quantity="km s-1")
Long- Pa- ram- e- ter	numScans (description="Number of Scans", quantity="km s-1")
Long- Pa- ram- e- ter	bbid (description="Building Block Identifier", quantity="km s-1")
String- Pa- ram- e- ter	bbTypeName (description="Building block type name", quantity="km s-1")
String- Pa- ram- e- ter	freqFrame (description="Standard of rest for spectral axis", quantity="km s-1")
String- Pa- ram- e- ter	apodType (description="Type of Apodization applied", quantity="km s-1")
String- Pa- ram-	apodName (description="Name of Apodization function applied", quantity="km s-1")

	e- ter	
DoubleParameter		telescopeTempM1 (description="Telescope temperature M1 (in K)", quantity="K")
DoubleParameter		telescopeTempM2 (description="Telescope temperature M2 (in K)", quantity="K")
BooleanParameter		phaseCorrApplied (description="Phase correction has been applied", quantity="K")
StringParameter		signalTable (description="Name of the signal table", quantity="K")
LongParameter		maskDead (description="Mask value for dead channel", quantity="K")
LongParameter		maskMaster (description="Mask value for master bit", quantity="K")
LongParameter		maskNoisy (description="Mask value for noisy channel", quantity="K")
LongParameter		maskSlow (description="Mask value for slow channel", quantity="K")
BooleanParameter		adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="K")
DoubleParameter		ratioTruncatedSSW (description="Maximum ratio of out of range values to total number of values in SSW data", quantity="K")
DoubleParameter		ratioTruncatedSLW (description="Maximum ratio of out of range values to total number of values in SLW data", quantity="K")

ram- e- ter	
Long- Pa- ram- e- ter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="K")
Long- Pa- ram- e- ter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="K")
Long- Pa- ram- e- ter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="K")
Dou- blePa- ram- e- ter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="K")
Long- Pa- ram- e- ter	maskInvalidTime (description="Mask value for invalid sample time", quantity="K")
Dou- blePa- ram- e- ter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
Dou- blePa- ram- e- ter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
Boolean- Pa- ram- e- ter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
Dou- blePa- ram- e- ter	slwBiasAmpl (description="SLW bias amplitude", quantity="V")
Dou- blePa- ram- e- ter	sswBiasAmpl (description="SSW bias amplitude", quantity="V")

DoubleParameter	slwBiasPhase (description="SLW bias phase", quantity="rad")
DoubleParameter	sswBiasPhase (description="SSW bias phase", quantity="rad")
BooleanParameter	rcRollApp (description="RC roll correction applied", quantity="rad")
DoubleParameter	subkTempDrift (description="Drift measured by the SubK temperature probe", quantity="K")
LongParameter	maskGlitchL1Detected (description="Mask value for first level glitch detected", quantity="K")
LongParameter	maskGlitchL1NotRemoved (description="Mask value for first level glitch detected and not removed", quantity="K")
DoubleParameter	ratioSpecFirstLevelGlitchesSLW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the SLW array", quantity="K")
DoubleParameter	ratioSpecFirstLevelGlitchesSSW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the SSW array", quantity="K")
DoubleParameter	ratioSamplesOutOfCalibrationRangeSSW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="K")
LongParameter	numberBelowK3VoltageSSW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="K")
DoubleParameter	ratioSamplesOutOfCalibrationRangeSLW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="K")

e-ter	
Long-Parameter	numberBelowK3VoltageSLW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="K")
Long-Parameter	maskVoltageOol (description="Mask value for voltage out of fitted range", quantity="K")
Long-Parameter	maskVoltageBelowK3 (description="Mask value for voltage below K3", quantity="K")
Long-Parameter	maskNoRespData (description="Mask value for voltage out of fitted range and/or below K3", quantity="K")
Boolean-Parameter	SpecNonLinearityCorrectionDone (description="null", quantity="K")
String-Parameter	respControlStamp (description="null", quantity="K")
Long-Parameter	numberClippedDetectorsSLW (description="Maximum number of detectors in SLW where at least one sample was flagged as clipped and could not be corrected", quantity="K")
Long-Parameter	numberClippedDetectorsSSW (description="Maximum number of detectors in SSW where at least one sample was flagged as clipped and could not be corrected", quantity="K")
DoubleParameter	scanExtrema (description="Maximum ratio of mesured SMEC scan extrema to commanded scan extrema", quantity="K")
DoubleParameter	smecTemperature (description="Maximum ddifference between maximum and minimum SMEC temperatures (in K)", quantity="K")
Long-Parameter	missedFringes (description="Maximum number of missed optical encoder fringes", quantity="K")

ram- e- ter	
Double- Parameter	stageSpeedAverage (description="Maximum ratio of the measured SMEC speed to the commanded SMEC speed", quantity="K")
Double- Parameter	stageSpeedDeviation (description="Maximum standard deviation of the SMEC speed (in micron/s)", quantity="K")
Long- Parameter	smecOpenLoopCount (description="Number of housekeeping entries which indicate that the SMEC is not in closed loop", quantity="K")
Long- Parameter	wrongBaselineSSW (description="Maximum number of detectors in SSW where the removed baseline is not a good approximation of the actual baseline in the interferogram", quantity="K")
Long- Parameter	wrongBaselineSLW (description="Maximum number of detectors in SLW where the removed baseline is not a good approximation of the actual baseline in the interferogram", quantity="K")
Long- Parameter	maskGlitchDetected (description="Mask value for glitch detected", quantity="K")
Long- Parameter	maskGlitchNotRemoved (description="Mask value for glitch detected and not removed", quantity="K")
Long- Parameter	maskUnreliableParameter (description="Mask value for unreliable telemetry parameter", quantity="K")
Long- Parameter	maskNotChoppedToSky (description="Mask value for channel not chopped to sky", quantity="K")
Long- Parameter	maskGlitchL2Detected (description="Mask value for second level glitch detected", quantity="K")

Long-Pa-ram-e-ter	maskGlitchL2NotRemoved (description="Mask value for second level glitch detected and not removed", quantity="K")
Long-Pa-ram-e-ter	maskTsignalHdv (description="Mask value for thermistor/DP signal deviations are larger than expected", quantity="K")
Long-Pa-ram-e-ter	maskBsmChopOol (description="Mask value for sample falls outside BSM chop soft limits", quantity="K")
Long-Pa-ram-e-ter	maskBsmJiggOol (description="Mask value for sample falls outside BSM Jiggle soft limits", quantity="K")
Long-Pa-ram-e-ter	maskJumpThermistorsDarksSignal (description="Mask value for signal jump in the thermistor/dark timeline", quantity="K")
Long-Pa-ram-e-ter	maskNoThermistorAvailable (description="Mask value for all the available thermistors are affected by either saturation or signal jump", quantity="K")
Long-Pa-ram-e-ter	maskNonNominalVelocity (description="Mask value for sample is not part of the nominal science scans of a scan map", quantity="K")
Long-Pa-ram-e-ter	maskNoDarkChannelAvailable (description="Mask value for all available dark channels in the array are affected by either saturation or signal jump", quantity="K")
Long-Pa-ram-e-ter	maskSerendipity (description="Mask value for sample belongs to serendipity mode", quantity="K")
Long-Pa-ram-e-ter	maskTurnaround (description="Mask value for sample belongs to a turnaround section of a scan map", quantity="K")
DoublePa-ram-	ratioSpecSecondLevelGlitchesSSW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the SSW array", quantity="K")

e- ter	
DoubleParameter	ratioSpecSecondLevelGlitchesSLW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the SLW array", quantity="K")
e- ter	
DoubleParameter	ratioSpecSecondLevelGlitchIdentificationProblemsSSW (description="Maximum ratio of number of data samples where there were not enough valid scans to perform statistical outlier detection over the total number of data samples in the detectors of the SSW array", quantity="K")
e- ter	
DoubleParameter	ratioSpecSecondLevelGlitchIdentificationProblemsSLW (description="Maximum ratio of number of data samples where there were not enough valid scans to perform statistical outlier detection over the total number of data samples in the detectors of the SLW array", quantity="K")
e- ter	
LongParameter	numberSecondLevelGlitchCorrectionProblemsSSW (description="Maximum number of cases where a data sample from a SSW detector that was flagged as a glitch was not corrected", quantity="K")
e- ter	
LongParameter	numberSecondLevelGlitchCorrectionProblemsSLW (description="Maximum number of cases where a data sample from a SLW detector that was flagged as a glitch was not corrected", quantity="K")
e- ter	
LongParameter	phaseWrapSLW (description="Maximum number of times that in-band phase changes by +/-2pi in any of the SLW detectors", quantity="K")
e- ter	
LongParameter	phaseWrapSSW (description="Maximum number of times that in-band phase changes by +/-2pi in any of the SSW detectors", quantity="K")
e- ter	
DoubleParameter	residualPhaseSLW (description="Maximum phase within the phase correction limits (in units of degree) for SLW", quantity="K")
e- ter	
DoubleParameter	residualPhaseSSW (description="Maximum phase within the phase correction limits (in units of degree) for SSW", quantity="K")
e- ter	
DoubleParameter	outOfBandHighRatioSLW (description="Maximum ratio of the mean of the absolute flux between 1200 and 5996 GHz over the mean of the absolute flux within the band edges.", quantity="K")
e- ter	

DoubleParameter	outOfBandHighRatioSSW (description="Maximum ratio of the mean of the absolute flux between 1799 and 5996 GHz over the mean of the absolute flux within the band edges.", quantity="K")
DoubleParameter	outOfBandLowRatioSLW (description="Maximum ratio of the mean of the absolute flux between 0.03 and 360 GHz over the mean of the absolute flux within the band edges.", quantity="K")
DoubleParameter	outOfBandLowRatioSSW (description="Maximum ratio of the mean of the absolute flux between 0.03 and 900 GHz over the mean of the absolute flux within the band edges.", quantity="K")
DoubleParameter	deltaSCalTemp (description="SCal maximum temperature variation (in K)", quantity="K")
DoubleParameter	deltaSCal2Temp (description="SCal2 maximum temperature variation (in K)", quantity="K")
DoubleParameter	deltaSCal4Temp (description="SCal4 maximum temperature variation (in K)", quantity="K")
DoubleParameter	deltaM1Temp (description="Maximum temperature variation of the telescope 1 temperature (in K)", quantity="K")
DoubleParameter	deltaM2Temp (description="Maximum temperature variation of the telescope 2 temperature (in K)", quantity="K")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="K")
StringParameter	fileName (description="null", quantity="K")
Columns	
compos- ite	(description="null")

<i>Meta- da- ta</i>	
Long- Pa- ram- eter	count (description="Set number")
Long- Pa- ram- eter	scanNumber (description="Scan number")
String- Pa- ram- eter	scanDir (description="Scan direction")
DatePa- ram- eter	scanStartDate (description="Start date of the FTS scan")
DatePa- ram- eter	scanEndDate (description="End date of the FTS scan")
<i>Columns</i>	
<i>ta- ble dataset</i>	(name="SLWA1", description="null")
<i>Meta- data</i>	
Dou- blePa- rame- ter	dec (description="Dec pointing for this channel", quantity="deg")
Dou- blePa- rame- ter	ra (description="Ra pointing for this channel", quantity="deg")
String- Pa- rame- ter	channelName (description="Channel name", quantity="deg")
Dou- blePa- rame- ter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long- Pa- rame- ter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
Quan- tifi- ablePa- rame- ter	waveunit (description="null", quantity="deg")

String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SLWA2", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")

DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")

<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SLWA3", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>String-Parameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Long-Parameter</i>	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
<i>QuantifiableParameter</i>	waveunit (description="null", quantity="deg")
<i>String-Parameter</i>	wavedescription (description="Description of WaveColumn", quantity="deg")
<i>DoubleParameter</i>	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
<i>DoubleParameter</i>	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")

DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SLWB1", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")

<i>table</i> <i>dataset</i>	(name="SLWB2", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")

	parameter	
	Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>		(name="SLWB3", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	String-Parameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
	Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
	QuantifiableParameter	waveunit (description="null", quantity="deg")
	String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")

	parameter	
	DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
	DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
	DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
	LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SLWB4", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")

parameter	
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	

<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i> <i>dataset</i>	(name="SLWC1", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>String-Parameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Long-Parameter</i>	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
<i>QuantifiableParameter</i>	waveunit (description="null", quantity="deg")
<i>String-Parameter</i>	wavedescription (description="Description of WaveColumn", quantity="deg")
<i>DoubleParameter</i>	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
<i>DoubleParameter</i>	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")

DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SLWC2", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")

table dataset	(name="SLWC3", description="null")
Meta- data	
DoublePa- rame- ter	dec (description="Dec pointing for this channel", quantity="deg")
DoublePa- rame- ter	ra (description="Ra pointing for this channel", quantity="deg")
String- Pa- rame- ter	channelName (description="Channel name", quantity="deg")
DoublePa- rame- ter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long- Pa- rame- ter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
Quantifi- ablePa- rame- ter	waveunit (description="null", quantity="deg")
String- Pa- rame- ter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoublePa- rame- ter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoublePa- rame- ter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoublePa- rame- ter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoublePa- rame- ter	deltaOpd (description="OPD Step Size", quantity="cm")
DoublePa-	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")

	parameter	
	Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SLWC4", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	String-Parameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
	Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
	QuantifiableParameter	waveunit (description="null", quantity="deg")
	String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")

	parameter	
	DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
	DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
	DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
	LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SLWC5", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoublePa-	ra (description="Ra pointing for this channel", quantity="deg")

parameter	
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	

<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i> <i>dataset</i>	(name="SLWD1", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>String-Parameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Long-Parameter</i>	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
<i>QuantifiableParameter</i>	waveunit (description="null", quantity="deg")
<i>String-Parameter</i>	wavedescription (description="Description of WaveColumn", quantity="deg")
<i>DoubleParameter</i>	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
<i>DoubleParameter</i>	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")

DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SLWD2", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")

table dataset	(name="SLWD3", description="null")
Meta- data	
DoublePa- rame- ter	dec (description="Dec pointing for this channel", quantity="deg")
DoublePa- rame- ter	ra (description="Ra pointing for this channel", quantity="deg")
String- Pa- rame- ter	channelName (description="Channel name", quantity="deg")
DoublePa- rame- ter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long- Pa- rame- ter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
Quantifi- ablePa- rame- ter	waveunit (description="null", quantity="deg")
String- Pa- rame- ter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoublePa- rame- ter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoublePa- rame- ter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoublePa- rame- ter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoublePa- rame- ter	deltaOpd (description="OPD Step Size", quantity="cm")
DoublePa-	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")

	parameter	
	Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>		(name="SLWD4", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	String-Parameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
	Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
	QuantifiableParameter	waveunit (description="null", quantity="deg")
	String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")

	parameter	
	DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
	DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
	DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
	LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SLWE1", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")

parameter	
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	

<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i> <i>dataset</i>	(name="SLWE2", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>String-Parameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Long-Parameter</i>	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
<i>QuantifiableParameter</i>	waveunit (description="null", quantity="deg")
<i>String-Parameter</i>	wavedescription (description="Description of WaveColumn", quantity="deg")
<i>DoubleParameter</i>	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
<i>DoubleParameter</i>	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")

DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SLWE3", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")

<i>table</i> <i>dataset</i>	(name="SSWA1", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")

	parameter	
	Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SSWA2", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	String-Parameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
	Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
	QuantifiableParameter	waveunit (description="null", quantity="deg")
	String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")

	parameter	
	DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
	DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
	DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
	LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SSWA3", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoublePa-	ra (description="Ra pointing for this channel", quantity="deg")

parameter	
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	

<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i> <i>dataset</i>	(name="SSWA4", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>String-Parameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Long-Parameter</i>	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
<i>QuantifiableParameter</i>	waveunit (description="null", quantity="deg")
<i>String-Parameter</i>	wavedescription (description="Description of WaveColumn", quantity="deg")
<i>DoubleParameter</i>	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
<i>DoubleParameter</i>	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")

DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWB1", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")

table dataset	(name="SSWB2", description="null")
Meta- data	
DoublePa- rame- ter	dec (description="Dec pointing for this channel", quantity="deg")
DoublePa- rame- ter	ra (description="Ra pointing for this channel", quantity="deg")
String- Pa- rame- ter	channelName (description="Channel name", quantity="deg")
DoublePa- rame- ter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long- Pa- rame- ter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
Quantifi- ablePa- rame- ter	waveunit (description="null", quantity="deg")
String- Pa- rame- ter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoublePa- rame- ter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoublePa- rame- ter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoublePa- rame- ter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoublePa- rame- ter	deltaOpd (description="OPD Step Size", quantity="cm")
DoublePa-	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")

	parameter	
	Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SSWB3", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	String-Parameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
	Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
	QuantifiableParameter	waveunit (description="null", quantity="deg")
	String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")

	parameter	
	DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
	DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
	DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
	LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SSWB4", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")

parameter	
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	

<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i> <i>dataset</i>	(name="SSWB5", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>String-Parameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Long-Parameter</i>	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
<i>QuantifiableParameter</i>	waveunit (description="null", quantity="deg")
<i>String-Parameter</i>	wavedescription (description="Description of WaveColumn", quantity="deg")
<i>DoubleParameter</i>	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
<i>DoubleParameter</i>	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")

DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWC1", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")

<i>table</i> <i>dataset</i>	(name="SSWC2", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")

	parameter	
	Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SSWC3", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	String-Parameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
	Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
	QuantifiableParameter	waveunit (description="null", quantity="deg")
	String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")

	parameter	
	DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
	DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
	DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
	LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SSWC4", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoublePa-	ra (description="Ra pointing for this channel", quantity="deg")

parameter	
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	

<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i> <i>dataset</i>	(name="SSWC5", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>String-Parameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Long-Parameter</i>	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
<i>QuantifiableParameter</i>	waveunit (description="null", quantity="deg")
<i>String-Parameter</i>	wavedescription (description="Description of WaveColumn", quantity="deg")
<i>DoubleParameter</i>	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
<i>DoubleParameter</i>	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")

DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWC6", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")

table dataset	(name="SSWD1", description="null")
Meta- data	
DoublePa- rame- ter	dec (description="Dec pointing for this channel", quantity="deg")
DoublePa- rame- ter	ra (description="Ra pointing for this channel", quantity="deg")
String- Pa- rame- ter	channelName (description="Channel name", quantity="deg")
DoublePa- rame- ter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long- Pa- rame- ter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
Quantifi- ablePa- rame- ter	waveunit (description="null", quantity="deg")
String- Pa- rame- ter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoublePa- rame- ter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoublePa- rame- ter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoublePa- rame- ter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoublePa- rame- ter	deltaOpd (description="OPD Step Size", quantity="cm")
DoublePa-	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")

	parameter	
	Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>		(name="SSWD2", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	String-Parameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
	Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
	QuantifiableParameter	waveunit (description="null", quantity="deg")
	String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")

	parameter	
	DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
	DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
	DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
	LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SSWD3", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoublePa-	ra (description="Ra pointing for this channel", quantity="deg")

parameter	
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	

<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i> <i>dataset</i>	(name="SSWD4", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>String-Parameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Long-Parameter</i>	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
<i>QuantifiableParameter</i>	waveunit (description="null", quantity="deg")
<i>String-Parameter</i>	wavedescription (description="Description of WaveColumn", quantity="deg")
<i>DoubleParameter</i>	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
<i>DoubleParameter</i>	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")

DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWD6", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")

<i>table</i> <i>dataset</i>	(name="SSWD7", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")

	parameter	
	Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>		(name="SSWE1", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	String-Parameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
	Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
	QuantifiableParameter	waveunit (description="null", quantity="deg")
	String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")

	parameter	
	DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
	DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
	DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
	LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SSWE2", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoublePa-	ra (description="Ra pointing for this channel", quantity="deg")

parameter	
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	

<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWE3", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>String-Parameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Long-Parameter</i>	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
<i>QuantifiableParameter</i>	waveunit (description="null", quantity="deg")
<i>String-Parameter</i>	wavedescription (description="Description of WaveColumn", quantity="deg")
<i>DoubleParameter</i>	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
<i>DoubleParameter</i>	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")

DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWE4", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")

<i>table</i> <i>dataset</i>	(name="SSWE5", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")

	parameter	
	Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SSWE6", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	String-Parameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
	Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
	QuantifiableParameter	waveunit (description="null", quantity="deg")
	String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")

	parameter	
	DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
	DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
	DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
	LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SSWF1", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoublePa-	ra (description="Ra pointing for this channel", quantity="deg")

parameter	
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	

<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWF2", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>String-Parameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Long-Parameter</i>	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
<i>QuantifiableParameter</i>	waveunit (description="null", quantity="deg")
<i>String-Parameter</i>	wavedescription (description="Description of WaveColumn", quantity="deg")
<i>DoubleParameter</i>	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
<i>DoubleParameter</i>	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")

DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
DoubleId	wave (description="Frequency", quantity="GHz")
DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
IntId	mask (description="Mask", quantity="1")
IntId	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWF3", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")

<i>table</i> <i>dataset</i>	(name="SSWF5", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")

	parameter	
	Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SSWG1", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	String-Parameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
	Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
	QuantifiableParameter	waveunit (description="null", quantity="deg")
	String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")

	parameter	
	DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
	DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
	DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
	LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SSWG2", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")

parameter	
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	

<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i> <i>dataset</i>	(name="SSWG3", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>String-Parameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Long-Parameter</i>	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
<i>QuantifiableParameter</i>	waveunit (description="null", quantity="deg")
<i>String-Parameter</i>	wavedescription (description="Description of WaveColumn", quantity="deg")
<i>DoubleParameter</i>	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
<i>DoubleParameter</i>	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")

DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWG4", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
DoubleId	wave (description="Frequency", quantity="GHz")
DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
IntId	mask (description="Mask", quantity="1")
IntId	numScans (description="Number Of Scans", quantity="1")

5.4.23. SPIRE Product Level 2 - Spectrometer Point Source Spectrum

<i>product (type="SPSS", description="Spectrometer Point Source Spectrum")</i>	
Meta- da- ta	
String- Pa- rame- ter	telescope (description="Name of telescope")
String- Pa- rame- ter	instrument (description="Instrument attached to this product")
String- Pa- rame- ter	subsystem (description="Instrument Subsystem")
String- Pa- rame- ter	source (description="TM source packet name")
String- Pa- rame- ter	creator (description="Generator of this product")
String- Pa- rame- ter	object (description="Target name")
String- Pa- rame- ter	observer (description="Observer name")
String- Pa- rame- ter	proposal (description="Proposal name")
Long- Pa- rame- ter	obsid (description="Observation identifier")
Long- Pa- rame- ter	odNumber (description="Operational day number")
DatePa- rame- ter	creationDate (description="Creation date of this product")

DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	jiggId (description="Jiggle ID")
LongParameter	pointNum (description="Pointing number")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
DoubleParameter	onSourceTime (description="Total on-source integration time for this observation", quantity="s")

parameter	
String-Parameter	commandedResolution (description="Commanded Spectral Resolution", quantity="s")
DoubleParameter	biasFreq (description="Bias frequency", quantity="Hz")
String-Parameter	elecSide (description="Electronic side", quantity="Hz")
String-Parameter	modelName (description="Model name attached to this product", quantity="Hz")
String-Parameter	formatVersion (description="Version of product format", quantity="Hz")
String-Parameter	missionConfig (description="Mission configuration", quantity="Hz")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
String-Parameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")

parameter	
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	raDecOffset (description="The offset between the commanded position and the actual reconstructed pointing, which includes any systematic BSM offset (bsmOffset), but not the APE.", quantity="arcsec")
DoubleParameter	bsmOffset (description="BSM offset position (0.0 or 1.7 arcsec), which is corrected for by the point-source calibration. This systematic offset is included in the raDecOffset value.", quantity="arcsec")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="km s-1")
StringParameter	calVersion (description="Calibration version", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")

parameter	
String-Parameter	processResolution (description="The resolution that is to be used or was used to process the data", quantity="km s-1")
Long-Parameter	numScans (description="Number of Scans", quantity="km s-1")
Long-Parameter	bbid (description="Building Block Identifier", quantity="km s-1")
String-Parameter	bbTypeName (description="Building block type name", quantity="km s-1")
String-Parameter	freqFrame (description="Standard of rest for spectral axis", quantity="km s-1")
String-Parameter	apodType (description="Type of Apodization applied", quantity="km s-1")
String-Parameter	apodName (description="Name of Apodization function applied", quantity="km s-1")
DoubleParameter	telescopeTempM1 (description="Telescope temperature M1 (in K)", quantity="K")
DoubleParameter	telescopeTempM2 (description="Telescope temperature M2 (in K)", quantity="K")
Boolean-Parameter	phaseCorrApplied (description="Phase correction has been applied", quantity="K")
String-Parameter	signalTable (description="Name of the signal table", quantity="K")
Long-Parameter	maskDead (description="Mask value for dead channel", quantity="K")
Long-Parameter	maskMaster (description="Mask value for master bit", quantity="K")

	parameter
	Long-Parameter maskNoisy (description="Mask value for noisy channel", quantity="K")
	Long-Parameter maskSlow (description="Mask value for slow channel", quantity="K")
Boolean-Parameter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="K")
DoubleParameter	ratioTruncatedSSW (description="Maximum ratio of out of range values to total number of values in SSW data", quantity="K")
DoubleParameter	ratioTruncatedSLW (description="Maximum ratio of out of range values to total number of values in SLW data", quantity="K")
Long-Parameter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="K")
Long-Parameter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="K")
Long-Parameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="K")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="K")
Long-Parameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="K")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
Boolean-Parameter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")

parameter	
DoubleParameter	slwBiasAmpl (description="SLW bias amplitude", quantity="V")
DoubleParameter	sswBiasAmpl (description="SSW bias amplitude", quantity="V")
DoubleParameter	slwBiasPhase (description="SLW bias phase", quantity="rad")
DoubleParameter	sswBiasPhase (description="SSW bias phase", quantity="rad")
BooleanParameter	rcRollApp (description="RC roll correction applied", quantity="rad")
DoubleParameter	subkTempDrift (description="Drift measured by the SubK temperature probe", quantity="K")
LongParameter	maskGlitchL1Detected (description="Mask value for first level glitch detected", quantity="K")
LongParameter	maskGlitchL1NotRemoved (description="Mask value for first level glitch detected and not removed", quantity="K")
DoubleParameter	ratioSpecFirstLevelGlitchesSLW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the SLW array", quantity="K")
DoubleParameter	ratioSpecFirstLevelGlitchesSSW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the SSW array", quantity="K")
DoubleParameter	ratioSamplesOutOfCalibrationRangeSSW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="K")
LongParameter	numberBelowK3VoltageSSW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="K")
DoubleParameter	ratioSamplesOutOfCalibrationRangeSLW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="K")

parameter	
Long-Parameter	numberBelowK3VoltageSLW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="K")
Long-Parameter	maskVoltageOol (description="Mask value for voltage out of fitted range", quantity="K")
Long-Parameter	maskVoltageBelowK3 (description="Mask value for voltage below K3", quantity="K")
Long-Parameter	maskNoRespData (description="Mask value for voltage out of fitted range and/or below K3", quantity="K")
Boolean-Parameter	SpecNonLinearityCorrectionDone (description="null", quantity="K")
String-Parameter	respControlStamp (description="null", quantity="K")
Long-Parameter	numberClippedDetectorsSLW (description="Maximum number of detectors in SLW where at least one sample was flagged as clipped and could not be corrected", quantity="K")
Long-Parameter	numberClippedDetectorsSSW (description="Maximum number of detectors in SSW where at least one sample was flagged as clipped and could not be corrected", quantity="K")
DoubleParameter	scanExtrema (description="Maximum ratio of measured SMEC scan extrema to commanded scan extrema", quantity="K")
DoubleParameter	smecTemperature (description="Maximum difference between maximum and minimum SMEC temperatures (in K)", quantity="K")
Long-Parameter	missedFringes (description="Maximum number of missed optical encoder fringes", quantity="K")
DoubleParameter	stageSpeedAverage (description="Maximum ratio of the measured SMEC speed to the commanded SMEC speed", quantity="K")
DoubleParameter	stageSpeedDeviation (description="Maximum standard deviation of the SMEC speed (in micron/s)", quantity="K")

parameter	
Long-Parameter	smecOpenLoopCount (description="Number of housekeeping entries which indicate that the SMEC is not in closed loop", quantity="K")
Long-Parameter	wrongBaselineSSW (description="Maximum number of detectors in SSW where the removed baseline is not a good approximation of the actual baseline in the interferogram", quantity="K")
Long-Parameter	wrongBaselineSLW (description="Maximum number of detectors in SLW where the removed baseline is not a good approximation of the actual baseline in the interferogram", quantity="K")
Long-Parameter	maskGlitchDetected (description="Mask value for glitch detected", quantity="K")
Long-Parameter	maskGlitchNotRemoved (description="Mask value for glitch detected and not removed", quantity="K")
Long-Parameter	maskUnreliableParameter (description="Mask value for unreliable telemetry parameter", quantity="K")
Long-Parameter	maskNotChoppedToSky (description="Mask value for channel not chopped to sky", quantity="K")
Long-Parameter	maskGlitchL2Detected (description="Mask value for second level glitch detected", quantity="K")
Long-Parameter	maskGlitchL2NotRemoved (description="Mask value for second level glitch detected and not removed", quantity="K")
Long-Parameter	maskTsignalHdv (description="Mask value for thermistor/DP signal deviations are larger than expected", quantity="K")
Long-Parameter	maskBsmChopOol (description="Mask value for sample falls outside BSM chop soft limits", quantity="K")
Long-Parameter	maskBsmJiggOol (description="Mask value for sample falls outside BSM Jiggle soft limits", quantity="K")
Long-Parameter	maskJumpThermistorsDarksSignal (description="Mask value for signal jump in the thermistor/dark timeline", quantity="K")

parameter	
Long-Parameter	maskNoThermistorAvailable (description="Mask value for all the available thermistors are affected by either saturation or signal jump", quantity="K")
Long-Parameter	maskNonNominalVelocity (description="Mask value for sample is not part of the nominal science scans of a scan map", quantity="K")
Long-Parameter	maskNoDarkChannelAvailable (description="Mask value for all available dark channels in the array are affected by either saturation or signal jump", quantity="K")
Long-Parameter	maskSerendipity (description="Mask value for sample belongs to serendipity mode", quantity="K")
Long-Parameter	maskTurnaround (description="Mask value for sample belongs to a turnaround section of a scan map", quantity="K")
DoubleParameter	ratioSpecSecondLevelGlitchesSSW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the SSW array", quantity="K")
DoubleParameter	ratioSpecSecondLevelGlitchesSLW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the SLW array", quantity="K")
DoubleParameter	ratioSpecSecondLevelGlitchIdentificationProblemsSSW (description="Maximum ratio of number of data samples where there were not enough valid scans to perform statistical outlier detection over the total number of data samples in the detectors of the SSW array", quantity="K")
DoubleParameter	ratioSpecSecondLevelGlitchIdentificationProblemsSLW (description="Maximum ratio of number of data samples where there were not enough valid scans to perform statistical outlier detection over the total number of data samples in the detectors of the SLW array", quantity="K")
Long-Parameter	numberSecondLevelGlitchCorrectionProblemsSSW (description="Maximum number of cases where a data sample from a SSW detector that was flagged as a glitch was not corrected", quantity="K")
Long-Parameter	numberSecondLevelGlitchCorrectionProblemsSLW (description="Maximum number of cases where a data sample from a SLW detector that was flagged as a glitch was not corrected", quantity="K")
Long-Parameter	phaseWrapSLW (description="Maximum number of times that in-band phase changes by +/-2pi in any of the SLW detectors", quantity="K")
Long-Parameter	phaseWrapSSW (description="Maximum number of times that in-band phase changes by +/-2pi in any of the SSW detectors", quantity="K")

parameter	
DoubleParameter	residualPhaseSLW (description="Maximum phase within the phase correction limits (in units of degree) for SLW", quantity="K")
DoubleParameter	residualPhaseSSW (description="Maximum phase within the phase correction limits (in units of degree) for SSW", quantity="K")
DoubleParameter	outOfBandHighRatioSLW (description="Maximum ratio of the mean of the absolute flux between 1200 and 5996 GHz over the mean of the absolute flux within the band edges.", quantity="K")
DoubleParameter	outOfBandHighRatioSSW (description="Maximum ratio of the mean of the absolute flux between 1799 and 5996 GHz over the mean of the absolute flux within the band edges.", quantity="K")
DoubleParameter	outOfBandLowRatioSLW (description="Maximum ratio of the mean of the absolute flux between 0.03 and 360 GHz over the mean of the absolute flux within the band edges.", quantity="K")
DoubleParameter	outOfBandLowRatioSSW (description="Maximum ratio of the mean of the absolute flux between 0.03 and 900 GHz over the mean of the absolute flux within the band edges.", quantity="K")
DoubleParameter	deltaSCalTemp (description="SCal maximum temperature variation (in K)", quantity="K")
DoubleParameter	deltaSCal2Temp (description="SCal2 maximum temperature variation (in K)", quantity="K")
DoubleParameter	deltaSCal4Temp (description="SCal4 maximum temperature variation (in K)", quantity="K")
DoubleParameter	deltaM1Temp (description="Maximum temperature variation of the telescope 1 temperature (in K)", quantity="K")
DoubleParameter	deltaM2Temp (description="Maximum temperature variation of the telescope 2 temperature (in K)", quantity="K")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="K")
StringParameter	fileName (description="null", quantity="K")

<i>Columns</i>	
<i>com- pos- ite</i>	(description="null")
<i>Meta- data</i>	
LongPa- rameter	count (description="Set number")
LongPa- rameter	scanNumber (description="Scan number")
String- Parame- ter	scanDir (description="Scan direction")
DatePa- rameter	scanStartDate (description="Start date of the FTS scan")
DatePa- rameter	scanEndDate (description="End date of the FTS scan")
<i>Columns</i>	
<i>table dataset</i>	(name="SLWB2", description="null")
<i>Metada- ta</i>	
DoublePa- rameter	dec (description="Dec pointing for this channel", quantity="deg")
DoublePa- rameter	ra (description="Ra pointing for this channel", quantity="deg")
StringPa- rameter	channelName (description="Channel name", quantity="deg")
DoublePa- rameter	qcResidualPhase (description="The maximum in-band residual phase for a given in- terferogram/spectrum", quantity="deg")
LongPa- rameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
Quantifi- ableParam- eter	waveunit (description="null", quantity="deg")
StringPa- rameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoublePa- rameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoublePa- rameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoublePa- rameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoublePa- rameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoublePa- rameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongPa- rameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")

LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
DoubleId	wave (description="Frequency", quantity="GHz")
DoubleId	flux (description="Flux Density", quantity="Jy")
DoubleId	error (description="Uncertainty", quantity="Jy")
IntId	mask (description="Mask", quantity="1")
IntId	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SLWB3", description="null")
Meta- data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
DoubleId	wave (description="Frequency", quantity="GHz")
DoubleId	flux (description="Flux Density", quantity="Jy")
DoubleId	error (description="Uncertainty", quantity="Jy")
IntId	mask (description="Mask", quantity="1")
IntId	numScans (description="Number Of Scans", quantity="1")

<i>table</i>	<i>(name="SLWC2", description="null")</i>	
<i>dataset</i>		
<i>Meta-data</i>		
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")	
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")	
StringParameter	channelName (description="Channel name", quantity="deg")	
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")	
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")	
QuantifiableParameter	waveunit (description="null", quantity="deg")	
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")	
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")	
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")	
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")	
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")	
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")	
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")	
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")	
<i>Columns</i>		
<i>Double1d</i>	wave (description="Frequency", quantity="GHz")	
<i>Double1d</i>	flux (description="Flux Density", quantity="Jy")	
<i>Double1d</i>	error (description="Uncertainty", quantity="Jy")	
<i>Int1d</i>	mask (description="Mask", quantity="1")	
<i>Int1d</i>	numScans (description="Number Of Scans", quantity="1")	
<i>table</i>	<i>(name="SLWC3", description="null")</i>	
<i>dataset</i>		
<i>Meta-data</i>		
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")	
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")	

StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
Double1d	wave (description="Frequency", quantity="GHz")
Double1d	flux (description="Flux Density", quantity="Jy")
Double1d	error (description="Uncertainty", quantity="Jy")
Int1d	mask (description="Mask", quantity="1")
Int1d	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SLWC4", description="null")
Meta- data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")

StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>Double1d</i>	wave (description="Frequency", quantity="GHz")
<i>Double1d</i>	flux (description="Flux Density", quantity="Jy")
<i>Double1d</i>	error (description="Uncertainty", quantity="Jy")
<i>Int1d</i>	mask (description="Mask", quantity="1")
<i>Int1d</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SLWD2", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")

DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
Double1d	wave (description="Frequency", quantity="GHz")
Double1d	flux (description="Flux Density", quantity="Jy")
Double1d	error (description="Uncertainty", quantity="Jy")
Int1d	mask (description="Mask", quantity="1")
Int1d	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SLWD3", description="null")
Meta- data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	

<i>Double1d</i>	wave (description="Frequency", quantity="GHz")
<i>Double1d</i>	flux (description="Flux Density", quantity="Jy")
<i>Double1d</i>	error (description="Uncertainty", quantity="Jy")
<i>Int1d</i>	mask (description="Mask", quantity="1")
<i>Int1d</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWB2", description="null")
<i>Meta- ta</i>	
<i>DoublePa- rameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoublePa- rameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>StringPa- rameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoublePa- rameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given in- terferogram/spectrum", quantity="deg")
<i>LongPa- rameter</i>	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
<i>Quantifi- ableParam- eter</i>	waveunit (description="null", quantity="deg")
<i>StringPa- rameter</i>	wavedescription (description="Description of WaveColumn", quantity="deg")
<i>DoublePa- rameter</i>	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
<i>DoublePa- rameter</i>	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
<i>DoublePa- rameter</i>	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
<i>DoublePa- rameter</i>	deltaOpd (description="OPD Step Size", quantity="cm")
<i>DoublePa- rameter</i>	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
<i>LongPa- rameter</i>	numFft (description="Number of unique samples in the FFT", quantity="GHz")
<i>LongPa- rameter</i>	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>Double1d</i>	wave (description="Frequency", quantity="GHz")
<i>Double1d</i>	flux (description="Flux Density", quantity="Jy")
<i>Double1d</i>	error (description="Uncertainty", quantity="Jy")
<i>Int1d</i>	mask (description="Mask", quantity="1")
<i>Int1d</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWB3", description="null")

<i>Meta-</i>	
<i>data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Flux Density", quantity="Jy")
<i>DoubleId</i>	error (description="Uncertainty", quantity="Jy")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i>	(name="SSWB4", description="null")
<i>dataset</i>	
<i>Meta-</i>	
<i>data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")

DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
DoubleId	wave (description="Frequency", quantity="GHz")
DoubleId	flux (description="Flux Density", quantity="Jy")
DoubleId	error (description="Uncertainty", quantity="Jy")
IntId	mask (description="Mask", quantity="1")
IntId	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SSWC2", description="null")
Meta- data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")

DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
Double1d	wave (description="Frequency", quantity="GHz")
Double1d	flux (description="Flux Density", quantity="Jy")
Double1d	error (description="Uncertainty", quantity="Jy")
Int1d	mask (description="Mask", quantity="1")
Int1d	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SSWC3", description="null")
Meta- data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")

DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
DoubleId	wave (description="Frequency", quantity="GHz")
DoubleId	flux (description="Flux Density", quantity="Jy")
DoubleId	error (description="Uncertainty", quantity="Jy")
IntId	mask (description="Mask", quantity="1")
IntId	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SSWC4", description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
DoubleId	wave (description="Frequency", quantity="GHz")

<i>Double1d</i>	flux (description="Flux Density", quantity="Jy")
<i>Double1d</i>	error (description="Uncertainty", quantity="Jy")
<i>Int1d</i>	mask (description="Mask", quantity="1")
<i>Int1d</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i> <i>dataset</i>	(name="SSWC5", description="null")
<i>Metada- ta</i>	
DoublePa- rameter	dec (description="Dec pointing for this channel", quantity="deg")
DoublePa- rameter	ra (description="Ra pointing for this channel", quantity="deg")
StringPa- rameter	channelName (description="Channel name", quantity="deg")
DoublePa- rameter	qcResidualPhase (description="The maximum in-band residual phase for a given in- terferogram/spectrum", quantity="deg")
LongPa- rameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
Quantifi- ableParam- eter	waveunit (description="null", quantity="deg")
StringPa- rameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoublePa- rameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoublePa- rameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoublePa- rameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoublePa- rameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoublePa- rameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongPa- rameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongPa- rameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>Double1d</i>	wave (description="Frequency", quantity="GHz")
<i>Double1d</i>	flux (description="Flux Density", quantity="Jy")
<i>Double1d</i>	error (description="Uncertainty", quantity="Jy")
<i>Int1d</i>	mask (description="Mask", quantity="1")
<i>Int1d</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i> <i>dataset</i>	(name="SSWD2", description="null")
<i>Metada- ta</i>	

DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by $\pm 2\pi$ ", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency ($1/2(\text{deltaOpd})$)", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
Double1d	wave (description="Frequency", quantity="GHz")
Double1d	flux (description="Flux Density", quantity="Jy")
Double1d	error (description="Uncertainty", quantity="Jy")
Int1d	mask (description="Mask", quantity="1")
Int1d	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SSWD3", description="null")
Meta- data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>Double1d</i>	wave (description="Frequency", quantity="GHz")
<i>Double1d</i>	flux (description="Flux Density", quantity="Jy")
<i>Double1d</i>	error (description="Uncertainty", quantity="Jy")
<i>Int1d</i>	mask (description="Mask", quantity="1")
<i>Int1d</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWD4", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")

DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
Double1d	wave (description="Frequency", quantity="GHz")
Double1d	flux (description="Flux Density", quantity="Jy")
Double1d	error (description="Uncertainty", quantity="Jy")
Int1d	mask (description="Mask", quantity="1")
Int1d	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SSWD6", description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")

LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
DoubleId	wave (description="Frequency", quantity="GHz")
DoubleId	flux (description="Flux Density", quantity="Jy")
DoubleId	error (description="Uncertainty", quantity="Jy")
IntId	mask (description="Mask", quantity="1")
IntId	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SSWE2", description="null")
Meta- data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
DoubleId	wave (description="Frequency", quantity="GHz")
DoubleId	flux (description="Flux Density", quantity="Jy")
DoubleId	error (description="Uncertainty", quantity="Jy")

<i>Int1d</i>	mask (description="Mask", quantity="1")
<i>Int1d</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWE3", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>Double1d</i>	wave (description="Frequency", quantity="GHz")
<i>Double1d</i>	flux (description="Flux Density", quantity="Jy")
<i>Double1d</i>	error (description="Uncertainty", quantity="Jy")
<i>Int1d</i>	mask (description="Mask", quantity="1")
<i>Int1d</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWE4", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")

DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
DoubleId	wave (description="Frequency", quantity="GHz")
DoubleId	flux (description="Flux Density", quantity="Jy")
DoubleId	error (description="Uncertainty", quantity="Jy")
IntId	mask (description="Mask", quantity="1")
IntId	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SSWE5", description="null")
Meta- ta	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")

QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
Double1d	wave (description="Frequency", quantity="GHz")
Double1d	flux (description="Flux Density", quantity="Jy")
Double1d	error (description="Uncertainty", quantity="Jy")
Int1d	mask (description="Mask", quantity="1")
Int1d	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SSWF2", description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")

DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
Double1d	wave (description="Frequency", quantity="GHz")
Double1d	flux (description="Flux Density", quantity="Jy")
Double1d	error (description="Uncertainty", quantity="Jy")
Int1d	mask (description="Mask", quantity="1")
Int1d	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SSWF3", description="null")
Metada- ta	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")

LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHZ")
Columns	
Double1d	wave (description="Frequency", quantity="GHZ")
Double1d	flux (description="Flux Density", quantity="Jy")
Double1d	error (description="Uncertainty", quantity="Jy")
Int1d	mask (description="Mask", quantity="1")
Int1d	numScans (description="Number Of Scans", quantity="1")

5.4.24. SPIRE Product Level 2 - Spectrometer Detector Spectrum

	<i>product (type="SDS", description="Spectrometer Detector Spectrum")</i>
Meta-data	
String-Parameter	telescope (description="Name of telescope")
String-Parameter	instrument (description="Instrument attached to this product")
String-Parameter	subsystem (description="Instrument Subsystem")
String-Parameter	source (description="TM source packet name")
String-Parameter	creator (description="Generator of this product")
String-Parameter	object (description="Target name")
String-Parameter	observer (description="Observer name")

e- ter	
String- Pa- ram- e- ter	proposal (description="Proposal name")
Long- Pa- ram- e- ter	obsid (description="Observation identifier")
Long- Pa- ram- e- ter	odNumber (description="Operational day number")
DatePa- ram- e- ter	creationDate (description="Creation date of this product")
DatePa- ram- e- ter	startDate (description="Start date of this product")
DatePa- ram- e- ter	endDate (description="End date of this product")
String- Pa- ram- e- ter	aot (description="AOT Identifier")
String- Pa- ram- e- ter	aorLabel (description="AOR Label as entered in HSpot")
String- Pa- ram- e- ter	cusMode (description="CUS observation mode")
String- Pa- ram- e- ter	instMode (description="Instrument Mode")
String- Pa- ram-	obsMode (description="Observation mode name")

e- ter	
String- Pa- ram- e- ter	pointingMode (description="Pointing mode")
String- Pa- ram- e- ter	mapSampling (description="Spatial sampling of map")
String- Pa- ram- e- ter	biasMode (description="Bias mode")
Long- Pa- ram- e- ter	jiggId (description="Jiggle ID")
Long- Pa- ram- e- ter	pointNum (description="Pointing number")
Long- Pa- ram- e- ter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
Dou- blePa- ram- e- ter	onSourceTime (description="Total on-source integration time for this observation", quantity="s")
String- Pa- ram- e- ter	commandedResolution (description="Commanded Spectral Resolution", quantity="s")
Dou- blePa- ram- e- ter	biasFreq (description="Bias frequency", quantity="Hz")
String- Pa- ram- e- ter	elecSide (description="Electronic side", quantity="Hz")
String- Pa-	modelName (description="Model name attached to this product", quantity="Hz")

ram- e- ter	
String- Pa- ram- e- ter	formatVersion (description="Version of product format", quantity="Hz")
String- Pa- ram- e- ter	missionConfig (description="Mission configuration", quantity="Hz")
Dou- blePa- ram- e- ter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
String- Pa- ram- e- ter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
Dou- blePa- ram- e- ter	ra (description="Actual Right Ascension of pointing", quantity="deg")
Dou- blePa- ram- e- ter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
Dou- blePa- ram- e- ter	dec (description="Actual Declination of pointing", quantity="deg")
Dou- blePa- ram- e- ter	decNominal (description="Requested Declination of pointing", quantity="deg")
Dou- blePa- ram- e- ter	posAngle (description="Position Angle of pointing", quantity="deg")
Dou- blePa- ram- e- ter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")

DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	raDecOffset (description="The offset between the commanded position and the actual reconstructed pointing, which includes any systematic BSM offset (bsmOffset), but not the APE.", quantity="arcsec")
DoubleParameter	bsmOffset (description="BSM offset position (0.0 or 1.7 arcsec), which is corrected for by the point-source calibration. This systematic offset is included in the raDecOffset value.", quantity="arcsec")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="km s-1")
StringParameter	calVersion (description="Calibration version", quantity="km s-1")

e- ter	
String- Pa- ram- e- ter	level (description="The level of the product", quantity="km s-1")
String- Pa- ram- e- ter	processResolution (description="The resolution that is to be used or was used to process the data", quantity="km s-1")
Long- Pa- ram- e- ter	numScans (description="Number of Scans", quantity="km s-1")
Long- Pa- ram- e- ter	bbid (description="Building Block Identifier", quantity="km s-1")
String- Pa- ram- e- ter	bbTypeName (description="Building block type name", quantity="km s-1")
String- Pa- ram- e- ter	freqFrame (description="Standard of rest for spectral axis", quantity="km s-1")
String- Pa- ram- e- ter	apodType (description="Type of Apodization applied", quantity="km s-1")
String- Pa- ram- e- ter	apodName (description="Name of Apodization function applied", quantity="km s-1")
DoublePa- ram- e- ter	telescopeTempM1 (description="Telescope temperature M1 (in K)", quantity="K")
DoublePa- ram- e- ter	telescopeTempM2 (description="Telescope temperature M2 (in K)", quantity="K")
Boolean- Pa-	phaseCorrApplied (description="Phase correction has been applied", quantity="K")

ram- e- ter	
String- Pa- ram- e- ter	signalTable (description="Name of the signal table", quantity="K")
Long- Pa- ram- e- ter	maskDead (description="Mask value for dead channel", quantity="K")
Long- Pa- ram- e- ter	maskMaster (description="Mask value for master bit", quantity="K")
Long- Pa- ram- e- ter	maskNoisy (description="Mask value for noisy channel", quantity="K")
Long- Pa- ram- e- ter	maskSlow (description="Mask value for slow channel", quantity="K")
Boolean- Pa- ram- e- ter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="K")
DoublePa- ram- e- ter	ratioTruncatedSSW (description="Maximum ratio of out of range values to total number of values in SSW data", quantity="K")
DoublePa- ram- e- ter	ratioTruncatedSLW (description="Maximum ratio of out of range values to total number of values in SLW data", quantity="K")
Long- Pa- ram- e- ter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="K")
Long- Pa- ram- e- ter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="K")

Long-Parameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="K")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="K")
Long-Parameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="K")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
Boolean-Parameter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
DoubleParameter	slwBiasAmpl (description="SLW bias amplitude", quantity="V")
DoubleParameter	sswBiasAmpl (description="SSW bias amplitude", quantity="V")
DoubleParameter	slwBiasPhase (description="SLW bias phase", quantity="rad")
DoubleParameter	sswBiasPhase (description="SSW bias phase", quantity="rad")
Boolean-Parameter	rcRollApp (description="RC roll correction applied", quantity="rad")

e- ter	
DoubleParameter	subkTempDrift (description="Drift measured by the SubK temperature probe", quantity="K")
LongParameter	maskGlitchL1Detected (description="Mask value for first level glitch detected", quantity="K")
LongParameter	maskGlitchL1NotRemoved (description="Mask value for first level glitch detected and not removed", quantity="K")
DoubleParameter	ratioSpecFirstLevelGlitchesSLW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the SLW array", quantity="K")
DoubleParameter	ratioSpecFirstLevelGlitchesSSW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the SSW array", quantity="K")
DoubleParameter	ratioSamplesOutOfCalibrationRangeSSW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="K")
LongParameter	numberBelowK3VoltageSSW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="K")
DoubleParameter	ratioSamplesOutOfCalibrationRangeSLW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="K")
LongParameter	numberBelowK3VoltageSLW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="K")
LongParameter	maskVoltageOol (description="Mask value for voltage out of fitted range", quantity="K")
LongParameter	maskVoltageBelowK3 (description="Mask value for voltage below K3", quantity="K")

ram- e- ter	
Long- Pa- ram- e- ter	maskNoRespData (description="Mask value for voltage out of fitted range and/or below K3", quantity="K")
Boolean- Pa- ram- e- ter	SpecNonLinearityCorrectionDone (description="null", quantity="K")
String- Pa- ram- e- ter	respControlStamp (description="null", quantity="K")
Long- Pa- ram- e- ter	numberClippedDetectorsSLW (description="Maximum number of detectors in SLW where at least one sample was flagged as clipped and could not be corrected", quantity="K")
Long- Pa- ram- e- ter	numberClippedDetectorsSSW (description="Maximum number of detectors in SSW where at least one sample was flagged as clipped and could not be corrected", quantity="K")
DoublePa- ram- e- ter	scanExtrema (description="Maximum ratio of measured SMEC scan extrema to commanded scan extrema", quantity="K")
DoublePa- ram- e- ter	smeTemperature (description="Maximum difference between maximum and minimum SMEC temperatures (in K)", quantity="K")
Long- Pa- ram- e- ter	missedFringes (description="Maximum number of missed optical encoder fringes", quantity="K")
DoublePa- ram- e- ter	stageSpeedAverage (description="Maximum ratio of the measured SMEC speed to the commanded SMEC speed", quantity="K")
DoublePa- ram- e- ter	stageSpeedDeviation (description="Maximum standard deviation of the SMEC speed (in micron/s)", quantity="K")

Long-Parameter	smecOpenLoopCount (description="Number of housekeeping entries which indicate that the SMEC is not in closed loop", quantity="K")
Long-Parameter	wrongBaselineSSW (description="Maximum number of detectors in SSW where the removed baseline is not a good approximation of the actual baseline in the interferogram", quantity="K")
Long-Parameter	wrongBaselineSLW (description="Maximum number of detectors in SLW where the removed baseline is not a good approximation of the actual baseline in the interferogram", quantity="K")
Long-Parameter	maskGlitchDetected (description="Mask value for glitch detected", quantity="K")
Long-Parameter	maskGlitchNotRemoved (description="Mask value for glitch detected and not removed", quantity="K")
Long-Parameter	maskUnreliableParameter (description="Mask value for unreliable telemetry parameter", quantity="K")
Long-Parameter	maskNotChoppedToSky (description="Mask value for channel not chopped to sky", quantity="K")
Long-Parameter	maskGlitchL2Detected (description="Mask value for second level glitch detected", quantity="K")
Long-Parameter	maskGlitchL2NotRemoved (description="Mask value for second level glitch detected and not removed", quantity="K")
Long-Parameter	maskTsignalHdv (description="Mask value for thermistor/DP signal deviations are larger than expected", quantity="K")
Long-Parameter	maskBsmChopOol (description="Mask value for sample falls outside BSM chop soft limits", quantity="K")

e- ter	
Long- Pa- ram- e- ter	maskBsmJiggOol (description="Mask value for sample falls outside BSM Jiggle soft limits", quantity="K")
Long- Pa- ram- e- ter	maskJumpThermistorsDarksSignal (description="Mask value for signal jump in the thermistor/dark timeline", quantity="K")
Long- Pa- ram- e- ter	maskNoThermistorAvailable (description="Mask value for all the available thermistors are affected by either saturation or signal jump", quantity="K")
Long- Pa- ram- e- ter	maskNonNominalVelocity (description="Mask value for sample is not part of the nominal science scans of a scan map", quantity="K")
Long- Pa- ram- e- ter	maskNoDarkChannelAvailable (description="Mask value for all available dark channels in the array are affected by either saturation or signal jump", quantity="K")
Long- Pa- ram- e- ter	maskSerendipity (description="Mask value for sample belongs to serendipity mode", quantity="K")
Long- Pa- ram- e- ter	maskTurnaround (description="Mask value for sample belongs to a turnaround section of a scan map", quantity="K")
DoublePa- ram- e- ter	ratioSpecSecondLevelGlitchesSSW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the SSW array", quantity="K")
DoublePa- ram- e- ter	ratioSpecSecondLevelGlitchesSLW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the SLW array", quantity="K")
DoublePa- ram- e- ter	ratioSpecSecondLevelGlitchIdentificationProblemsSSW (description="Maximum ratio of number of data samples where there were not enough valid scans to perform statistical outlier detection over the total number of data samples in the detectors of the SSW array", quantity="K")

DoubleParameter	ratioSpecSecondLevelGlitchIdentificationProblemsSLW (description="Maximum ratio of number of data samples where there were not enough valid scans to perform statistical outlier detection over the total number of data samples in the detectors of the SLW array", quantity="K")
LongParameter	numberSecondLevelGlitchCorrectionProblemsSSW (description="Maximum number of cases where a data sample from a SSW detector that was flagged as a glitch was not corrected", quantity="K")
LongParameter	numberSecondLevelGlitchCorrectionProblemsSLW (description="Maximum number of cases where a data sample from a SLW detector that was flagged as a glitch was not corrected", quantity="K")
LongParameter	phaseWrapSLW (description="Maximum number of times that in-band phase changes by +/-2pi in any of the SLW detectors", quantity="K")
LongParameter	phaseWrapSSW (description="Maximum number of times that in-band phase changes by +/-2pi in any of the SSW detectors", quantity="K")
DoubleParameter	residualPhaseSLW (description="Maximum phase within the phase correction limits (in units of degree) for SLW", quantity="K")
DoubleParameter	residualPhaseSSW (description="Maximum phase within the phase correction limits (in units of degree) for SSW", quantity="K")
DoubleParameter	outOfBandHighRatioSLW (description="Maximum ratio of the mean of the absolute flux between 1200 and 5996 GHz over the mean of the absolute flux within the band edges.", quantity="K")
DoubleParameter	outOfBandHighRatioSSW (description="Maximum ratio of the mean of the absolute flux between 1799 and 5996 GHz over the mean of the absolute flux within the band edges.", quantity="K")
DoubleParameter	outOfBandLowRatioSLW (description="Maximum ratio of the mean of the absolute flux between 0.03 and 360 GHz over the mean of the absolute flux within the band edges.", quantity="K")
DoubleParameter	outOfBandLowRatioSSW (description="Maximum ratio of the mean of the absolute flux between 0.03 and 900 GHz over the mean of the absolute flux within the band edges.", quantity="K")

	e-ter	
DoubleParameter	deltaSCalTemp (description="SCal maximum temperature variation (in K)", quantity="K")	
DoubleParameter	deltaSCal2Temp (description="SCal2 maximum temperature variation (in K)", quantity="K")	
DoubleParameter	deltaSCal4Temp (description="SCal4 maximum temperature variation (in K)", quantity="K")	
DoubleParameter	deltaM1Temp (description="Maximum temperature variation of the telescope 1 temperature (in K)", quantity="K")	
DoubleParameter	deltaM2Temp (description="Maximum temperature variation of the telescope 2 temperature (in K)", quantity="K")	
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="K")	
StringParameter	fileName (description="null", quantity="K")	
LongParameter	photObsid000 (description="SPIRE photometer map obsid that overlaps with this observation - 000", quantity="K")	
LongParameter	photObsid001 (description="SPIRE photometer map obsid that overlaps with this observation - 001", quantity="K")	
Columns		
composite	(description="null")	
Metadata		

Long-Parameter	count (description="Set number")
Long-Parameter	scanNumber (description="Scan number")
String-Parameter	scanDir (description="Scan direction")
DateParameter	scanStartDate (description="Start date of the FTS scan")
DateParameter	scanEndDate (description="End date of the FTS scan")
Columns	
table dataset	(name="SLWA1", description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")

	parameter	
	DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
	DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
	DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
	LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
	<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	<i>IntId</i>	mask (description="Mask", quantity="1")
	<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SLWA2", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")

parameter	
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	

<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i> <i>dataset</i>	(name="SLWA3", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>String-Parameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Long-Parameter</i>	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
<i>QuantifiableParameter</i>	waveunit (description="null", quantity="deg")
<i>String-Parameter</i>	wavedescription (description="Description of WaveColumn", quantity="deg")
<i>DoubleParameter</i>	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
<i>DoubleParameter</i>	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")

DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SLWB1", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")

<i>table</i> <i>dataset</i>	(name="SLWB2", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")

	parameter	
	Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>		(name="SLWB3", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	String-Parameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
	Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
	QuantifiableParameter	waveunit (description="null", quantity="deg")
	String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")

	parameter	
	DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
	DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
	DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
	LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SLWB4", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")

parameter	
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	

<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i> <i>dataset</i>	(name="SLWC1", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>LongParameter</i>	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
<i>QuantifiableParameter</i>	waveunit (description="null", quantity="deg")
<i>StringParameter</i>	wavedescription (description="Description of WaveColumn", quantity="deg")
<i>DoubleParameter</i>	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
<i>DoubleParameter</i>	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")

DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SLWC2", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")

<i>table</i> <i>dataset</i>	(name="SLWC3", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")

	parameter	
	Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SLWC4", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	String-Parameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
	Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
	QuantifiableParameter	waveunit (description="null", quantity="deg")
	String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")

	parameter	
	DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
	DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
	DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
	LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SLWC5", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoublePa-	ra (description="Ra pointing for this channel", quantity="deg")

parameter	
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	

<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i> <i>dataset</i>	(name="SLWD1", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>String-Parameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Long-Parameter</i>	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
<i>QuantifiableParameter</i>	waveunit (description="null", quantity="deg")
<i>String-Parameter</i>	wavedescription (description="Description of WaveColumn", quantity="deg")
<i>DoubleParameter</i>	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
<i>DoubleParameter</i>	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")

DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SLWD2", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")

table dataset	(name="SLWD3", description="null")
Meta- data	
DoublePa- rame- ter	dec (description="Dec pointing for this channel", quantity="deg")
DoublePa- rame- ter	ra (description="Ra pointing for this channel", quantity="deg")
String- Pa- rame- ter	channelName (description="Channel name", quantity="deg")
DoublePa- rame- ter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long- Pa- rame- ter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
Quantifi- ablePa- rame- ter	waveunit (description="null", quantity="deg")
String- Pa- rame- ter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoublePa- rame- ter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoublePa- rame- ter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoublePa- rame- ter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoublePa- rame- ter	deltaOpd (description="OPD Step Size", quantity="cm")
DoublePa-	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")

	parameter	
	Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>		(name="SLWD4", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	String-Parameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
	Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
	QuantifiableParameter	waveunit (description="null", quantity="deg")
	String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")

	parameter	
	DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
	DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
	DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
	LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SLWE1", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")

parameter	
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	

<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i> <i>dataset</i>	(name="SLWE2", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>String-Parameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Long-Parameter</i>	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
<i>QuantifiableParameter</i>	waveunit (description="null", quantity="deg")
<i>String-Parameter</i>	wavedescription (description="Description of WaveColumn", quantity="deg")
<i>DoubleParameter</i>	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
<i>DoubleParameter</i>	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")

DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SLWE3", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")

<i>table</i> <i>dataset</i>	(name="SSWA1", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")

	parameter	
	Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SSWA2", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	String-Parameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
	Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
	QuantifiableParameter	waveunit (description="null", quantity="deg")
	String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")

	parameter	
	DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
	DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
	DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
	LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SSWA3", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")

parameter	
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	

<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWA4", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>String-Parameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Long-Parameter</i>	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
<i>QuantifiableParameter</i>	waveunit (description="null", quantity="deg")
<i>String-Parameter</i>	wavedescription (description="Description of WaveColumn", quantity="deg")
<i>DoubleParameter</i>	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
<i>DoubleParameter</i>	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")

DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWB1", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")

<i>table</i> <i>dataset</i>	(name="SSWB2", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")

	parameter	
	Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SSWB3", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	String-Parameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
	Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
	QuantifiableParameter	waveunit (description="null", quantity="deg")
	String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")

	parameter	
	DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
	DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
	DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
	LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SSWB4", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")

parameter	
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	

<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i> <i>dataset</i>	(name="SSWB5", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>String-Parameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Long-Parameter</i>	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
<i>QuantifiableParameter</i>	waveunit (description="null", quantity="deg")
<i>String-Parameter</i>	wavedescription (description="Description of WaveColumn", quantity="deg")
<i>DoubleParameter</i>	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
<i>DoubleParameter</i>	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")

DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWC1", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")

<i>table</i> <i>dataset</i>	(name="SSWC2", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")

	parameter	
	Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>		(name="SSWC3", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	String-Parameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
	Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
	QuantifiableParameter	waveunit (description="null", quantity="deg")
	String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")

	parameter	
	DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
	DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
	DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
	LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
	<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	<i>IntId</i>	mask (description="Mask", quantity="1")
	<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWC4", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")

parameter	
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	

<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i> <i>dataset</i>	(name="SSWC5", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>String-Parameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Long-Parameter</i>	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
<i>QuantifiableParameter</i>	waveunit (description="null", quantity="deg")
<i>String-Parameter</i>	wavedescription (description="Description of WaveColumn", quantity="deg")
<i>DoubleParameter</i>	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
<i>DoubleParameter</i>	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")

DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWC6", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")

<i>table</i> <i>dataset</i>	(name="SSWD1", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")

	parameter	
	Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SSWD2", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	String-Parameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
	Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
	QuantifiableParameter	waveunit (description="null", quantity="deg")
	String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")

	parameter	
	DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
	DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
	DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
	LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SSWD3", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")

parameter	
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	

<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i> <i>dataset</i>	(name="SSWD4", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>String-Parameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Long-Parameter</i>	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
<i>QuantifiableParameter</i>	waveunit (description="null", quantity="deg")
<i>String-Parameter</i>	wavedescription (description="Description of WaveColumn", quantity="deg")
<i>DoubleParameter</i>	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
<i>DoubleParameter</i>	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")

DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWD6", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")

table dataset	(name="SSWD7", description="null")
Meta- data	
DoublePa- rame- ter	dec (description="Dec pointing for this channel", quantity="deg")
DoublePa- rame- ter	ra (description="Ra pointing for this channel", quantity="deg")
String- Pa- rame- ter	channelName (description="Channel name", quantity="deg")
DoublePa- rame- ter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long- Pa- rame- ter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
Quantifi- ablePa- rame- ter	waveunit (description="null", quantity="deg")
String- Pa- rame- ter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoublePa- rame- ter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoublePa- rame- ter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoublePa- rame- ter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoublePa- rame- ter	deltaOpd (description="OPD Step Size", quantity="cm")
DoublePa-	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")

	parameter	
	Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SSWE1", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	String-Parameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
	Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
	QuantifiableParameter	waveunit (description="null", quantity="deg")
	String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")

	parameter	
	DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
	DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
	DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
	LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SSWE2", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")

parameter	
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	

<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i> <i>dataset</i>	(name="SSWE3", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>String-Parameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Long-Parameter</i>	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
<i>QuantifiableParameter</i>	waveunit (description="null", quantity="deg")
<i>String-Parameter</i>	wavedescription (description="Description of WaveColumn", quantity="deg")
<i>DoubleParameter</i>	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
<i>DoubleParameter</i>	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")

DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWE4", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")

table dataset	(name="SSWE5", description="null")
Meta- data	
DoublePa- rame- ter	dec (description="Dec pointing for this channel", quantity="deg")
DoublePa- rame- ter	ra (description="Ra pointing for this channel", quantity="deg")
String- Pa- rame- ter	channelName (description="Channel name", quantity="deg")
DoublePa- rame- ter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long- Pa- rame- ter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
Quantifi- ablePa- rame- ter	waveunit (description="null", quantity="deg")
String- Pa- rame- ter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoublePa- rame- ter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoublePa- rame- ter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoublePa- rame- ter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoublePa- rame- ter	deltaOpd (description="OPD Step Size", quantity="cm")
DoublePa-	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")

	parameter	
	Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SSWE6", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	String-Parameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
	Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
	QuantifiableParameter	waveunit (description="null", quantity="deg")
	String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")

	parameter	
	DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
	DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
	DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
	LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SSWF1", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")

parameter	
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	

<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWF2", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>String-Parameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Long-Parameter</i>	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
<i>QuantifiableParameter</i>	waveunit (description="null", quantity="deg")
<i>String-Parameter</i>	wavedescription (description="Description of WaveColumn", quantity="deg")
<i>DoubleParameter</i>	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
<i>DoubleParameter</i>	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")

DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWF3", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")

table dataset	(name="SSWF5", description="null")
Meta- data	
DoublePa- rame- ter	dec (description="Dec pointing for this channel", quantity="deg")
DoublePa- rame- ter	ra (description="Ra pointing for this channel", quantity="deg")
String- Pa- rame- ter	channelName (description="Channel name", quantity="deg")
DoublePa- rame- ter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long- Pa- rame- ter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
Quantifi- ablePa- rame- ter	waveunit (description="null", quantity="deg")
String- Pa- rame- ter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoublePa- rame- ter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoublePa- rame- ter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoublePa- rame- ter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoublePa- rame- ter	deltaOpd (description="OPD Step Size", quantity="cm")
DoublePa-	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")

	parameter	
	Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SSWG1", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	String-Parameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
	Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
	QuantifiableParameter	waveunit (description="null", quantity="deg")
	String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")

	parameter	
	DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
	DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
	DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
	LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SSWG2", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")

parameter	
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	

<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i> <i>dataset</i>	(name="SSWG3", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>String-Parameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Long-Parameter</i>	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
<i>QuantifiableParameter</i>	waveunit (description="null", quantity="deg")
<i>String-Parameter</i>	wavedescription (description="Description of WaveColumn", quantity="deg")
<i>DoubleParameter</i>	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
<i>DoubleParameter</i>	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")

DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWG4", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
DoubleId	wave (description="Frequency", quantity="GHz")
DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
IntId	mask (description="Mask", quantity="1")
IntId	numScans (description="Number Of Scans", quantity="1")

5.4.25. SPIRE Product Level 2 - Spectrometer Point Source Spectrum

<i>product (type="SPSS", description="Spectrometer Point Source Spectrum")</i>	
Meta- da- ta	
String- Pa- rame- ter	telescope (description="Name of telescope")
String- Pa- rame- ter	instrument (description="Instrument attached to this product")
String- Pa- rame- ter	subsystem (description="Instrument Subsystem")
String- Pa- rame- ter	source (description="TM source packet name")
String- Pa- rame- ter	creator (description="Generator of this product")
String- Pa- rame- ter	object (description="Target name")
String- Pa- rame- ter	observer (description="Observer name")
String- Pa- rame- ter	proposal (description="Proposal name")
Long- Pa- rame- ter	obsid (description="Observation identifier")
Long- Pa- rame- ter	odNumber (description="Operational day number")
DatePa- rame- ter	creationDate (description="Creation date of this product")

DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	jiggId (description="Jiggle ID")
LongParameter	pointNum (description="Pointing number")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
DoubleParameter	onSourceTime (description="Total on-source integration time for this observation", quantity="s")

parameter	
String-Parameter	commandedResolution (description="Commanded Spectral Resolution", quantity="s")
DoubleParameter	biasFreq (description="Bias frequency", quantity="Hz")
String-Parameter	elecSide (description="Electronic side", quantity="Hz")
String-Parameter	modelName (description="Model name attached to this product", quantity="Hz")
String-Parameter	formatVersion (description="Version of product format", quantity="Hz")
String-Parameter	missionConfig (description="Mission configuration", quantity="Hz")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
String-Parameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")

parameter	
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	raDecOffset (description="The offset between the commanded position and the actual reconstructed pointing, which includes any systematic BSM offset (bsmOffset), but not the APE.", quantity="arcsec")
DoubleParameter	bsmOffset (description="BSM offset position (0.0 or 1.7 arcsec), which is corrected for by the point-source calibration. This systematic offset is included in the raDecOffset value.", quantity="arcsec")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="km s-1")
StringParameter	calVersion (description="Calibration version", quantity="km s-1")
StringParameter	level (description="The level of the product", quantity="km s-1")

parameter	
String-Parameter	processResolution (description="The resolution that is to be used or was used to process the data", quantity="km s-1")
Long-Parameter	numScans (description="Number of Scans", quantity="km s-1")
Long-Parameter	bbid (description="Building Block Identifier", quantity="km s-1")
String-Parameter	bbTypeName (description="Building block type name", quantity="km s-1")
String-Parameter	freqFrame (description="Standard of rest for spectral axis", quantity="km s-1")
String-Parameter	apodType (description="Type of Apodization applied", quantity="km s-1")
String-Parameter	apodName (description="Name of Apodization function applied", quantity="km s-1")
DoubleParameter	telescopeTempM1 (description="Telescope temperature M1 (in K)", quantity="K")
DoubleParameter	telescopeTempM2 (description="Telescope temperature M2 (in K)", quantity="K")
Boolean-Parameter	phaseCorrApplied (description="Phase correction has been applied", quantity="K")
String-Parameter	signalTable (description="Name of the signal table", quantity="K")
Long-Parameter	maskDead (description="Mask value for dead channel", quantity="K")
Long-Parameter	maskMaster (description="Mask value for master bit", quantity="K")

	parameter
	Long-Parameter maskNoisy (description="Mask value for noisy channel", quantity="K")
	Long-Parameter maskSlow (description="Mask value for slow channel", quantity="K")
Boolean-Parameter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="K")
DoubleParameter	ratioTruncatedSSW (description="Maximum ratio of out of range values to total number of values in SSW data", quantity="K")
DoubleParameter	ratioTruncatedSLW (description="Maximum ratio of out of range values to total number of values in SLW data", quantity="K")
Long-Parameter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="K")
Long-Parameter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="K")
Long-Parameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="K")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="K")
Long-Parameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="K")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
Boolean-Parameter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")

parameter	
DoubleParameter	slwBiasAmpl (description="SLW bias amplitude", quantity="V")
DoubleParameter	sswBiasAmpl (description="SSW bias amplitude", quantity="V")
DoubleParameter	slwBiasPhase (description="SLW bias phase", quantity="rad")
DoubleParameter	sswBiasPhase (description="SSW bias phase", quantity="rad")
BooleanParameter	rcRollApp (description="RC roll correction applied", quantity="rad")
DoubleParameter	subkTempDrift (description="Drift measured by the SubK temperature probe", quantity="K")
LongParameter	maskGlitchL1Detected (description="Mask value for first level glitch detected", quantity="K")
LongParameter	maskGlitchL1NotRemoved (description="Mask value for first level glitch detected and not removed", quantity="K")
DoubleParameter	ratioSpecFirstLevelGlitchesSLW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the SLW array", quantity="K")
DoubleParameter	ratioSpecFirstLevelGlitchesSSW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the SSW array", quantity="K")
DoubleParameter	ratioSamplesOutOfCalibrationRangeSSW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="K")
LongParameter	numberBelowK3VoltageSSW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="K")
DoubleParameter	ratioSamplesOutOfCalibrationRangeSLW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="K")

parameter	
Long-Parameter	numberBelowK3VoltageSLW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="K")
Long-Parameter	maskVoltageOol (description="Mask value for voltage out of fitted range", quantity="K")
Long-Parameter	maskVoltageBelowK3 (description="Mask value for voltage below K3", quantity="K")
Long-Parameter	maskNoRespData (description="Mask value for voltage out of fitted range and/or below K3", quantity="K")
Boolean-Parameter	SpecNonLinearityCorrectionDone (description="null", quantity="K")
String-Parameter	respControlStamp (description="null", quantity="K")
Long-Parameter	numberClippedDetectorsSLW (description="Maximum number of detectors in SLW where at least one sample was flagged as clipped and could not be corrected", quantity="K")
Long-Parameter	numberClippedDetectorsSSW (description="Maximum number of detectors in SSW where at least one sample was flagged as clipped and could not be corrected", quantity="K")
DoubleParameter	scanExtrema (description="Maximum ratio of measured SMEC scan extrema to commanded scan extrema", quantity="K")
DoubleParameter	smecTemperature (description="Maximum difference between maximum and minimum SMEC temperatures (in K)", quantity="K")
Long-Parameter	missedFringes (description="Maximum number of missed optical encoder fringes", quantity="K")
DoubleParameter	stageSpeedAverage (description="Maximum ratio of the measured SMEC speed to the commanded SMEC speed", quantity="K")
DoubleParameter	stageSpeedDeviation (description="Maximum standard deviation of the SMEC speed (in micron/s)", quantity="K")

parameter	
Long-Parameter	smecOpenLoopCount (description="Number of housekeeping entries which indicate that the SMEC is not in closed loop", quantity="K")
Long-Parameter	wrongBaselineSSW (description="Maximum number of detectors in SSW where the removed baseline is not a good approximation of the actual baseline in the interferogram", quantity="K")
Long-Parameter	wrongBaselineSLW (description="Maximum number of detectors in SLW where the removed baseline is not a good approximation of the actual baseline in the interferogram", quantity="K")
Long-Parameter	maskGlitchDetected (description="Mask value for glitch detected", quantity="K")
Long-Parameter	maskGlitchNotRemoved (description="Mask value for glitch detected and not removed", quantity="K")
Long-Parameter	maskUnreliableParameter (description="Mask value for unreliable telemetry parameter", quantity="K")
Long-Parameter	maskNotChoppedToSky (description="Mask value for channel not chopped to sky", quantity="K")
Long-Parameter	maskGlitchL2Detected (description="Mask value for second level glitch detected", quantity="K")
Long-Parameter	maskGlitchL2NotRemoved (description="Mask value for second level glitch detected and not removed", quantity="K")
Long-Parameter	maskTsignalHdv (description="Mask value for thermistor/DP signal deviations are larger than expected", quantity="K")
Long-Parameter	maskBsmChopOol (description="Mask value for sample falls outside BSM chop soft limits", quantity="K")
Long-Parameter	maskBsmJiggOol (description="Mask value for sample falls outside BSM Jiggle soft limits", quantity="K")
Long-Parameter	maskJumpThermistorsDarksSignal (description="Mask value for signal jump in the thermistor/dark timeline", quantity="K")

parameter	
Long-Parameter	maskNoThermistorAvailable (description="Mask value for all the available thermistors are affected by either saturation or signal jump", quantity="K")
Long-Parameter	maskNonNominalVelocity (description="Mask value for sample is not part of the nominal science scans of a scan map", quantity="K")
Long-Parameter	maskNoDarkChannelAvailable (description="Mask value for all available dark channels in the array are affected by either saturation or signal jump", quantity="K")
Long-Parameter	maskSerendipity (description="Mask value for sample belongs to serendipity mode", quantity="K")
Long-Parameter	maskTurnaround (description="Mask value for sample belongs to a turnaround section of a scan map", quantity="K")
DoubleParameter	ratioSpecSecondLevelGlitchesSSW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the SSW array", quantity="K")
DoubleParameter	ratioSpecSecondLevelGlitchesSLW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the SLW array", quantity="K")
DoubleParameter	ratioSpecSecondLevelGlitchIdentificationProblemsSSW (description="Maximum ratio of number of data samples where there were not enough valid scans to perform statistical outlier detection over the total number of data samples in the detectors of the SSW array", quantity="K")
DoubleParameter	ratioSpecSecondLevelGlitchIdentificationProblemsSLW (description="Maximum ratio of number of data samples where there were not enough valid scans to perform statistical outlier detection over the total number of data samples in the detectors of the SLW array", quantity="K")
Long-Parameter	numberSecondLevelGlitchCorrectionProblemsSSW (description="Maximum number of cases where a data sample from a SSW detector that was flagged as a glitch was not corrected", quantity="K")
Long-Parameter	numberSecondLevelGlitchCorrectionProblemsSLW (description="Maximum number of cases where a data sample from a SLW detector that was flagged as a glitch was not corrected", quantity="K")
Long-Parameter	phaseWrapSLW (description="Maximum number of times that in-band phase changes by +/-2pi in any of the SLW detectors", quantity="K")
Long-Parameter	phaseWrapSSW (description="Maximum number of times that in-band phase changes by +/-2pi in any of the SSW detectors", quantity="K")

parameter	
DoubleParameter	residualPhaseSLW (description="Maximum phase within the phase correction limits (in units of degree) for SLW", quantity="K")
DoubleParameter	residualPhaseSSW (description="Maximum phase within the phase correction limits (in units of degree) for SSW", quantity="K")
DoubleParameter	outOfBandHighRatioSLW (description="Maximum ratio of the mean of the absolute flux between 1200 and 5996 GHz over the mean of the absolute flux within the band edges.", quantity="K")
DoubleParameter	outOfBandHighRatioSSW (description="Maximum ratio of the mean of the absolute flux between 1799 and 5996 GHz over the mean of the absolute flux within the band edges.", quantity="K")
DoubleParameter	outOfBandLowRatioSLW (description="Maximum ratio of the mean of the absolute flux between 0.03 and 360 GHz over the mean of the absolute flux within the band edges.", quantity="K")
DoubleParameter	outOfBandLowRatioSSW (description="Maximum ratio of the mean of the absolute flux between 0.03 and 900 GHz over the mean of the absolute flux within the band edges.", quantity="K")
DoubleParameter	deltaSCalTemp (description="SCal maximum temperature variation (in K)", quantity="K")
DoubleParameter	deltaSCal2Temp (description="SCal2 maximum temperature variation (in K)", quantity="K")
DoubleParameter	deltaSCal4Temp (description="SCal4 maximum temperature variation (in K)", quantity="K")
DoubleParameter	deltaM1Temp (description="Maximum temperature variation of the telescope 1 temperature (in K)", quantity="K")
DoubleParameter	deltaM2Temp (description="Maximum temperature variation of the telescope 2 temperature (in K)", quantity="K")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="K")
StringParameter	fileName (description="null", quantity="K")

Long-Parameter	photObsid000 (description="SPIRE photometer map obsid that overlaps with this observation - 000", quantity="K")
Long-Parameter	photObsid001 (description="SPIRE photometer map obsid that overlaps with this observation - 001", quantity="K")
<i>Columns</i>	
<i>com- pos- ite</i>	(description="null")
<i>Meta- data</i>	
LongParameter	count (description="Set number")
LongParameter	scanNumber (description="Scan number")
String-Parameter	scanDir (description="Scan direction")
DateParameter	scanStartDate (description="Start date of the FTS scan")
DateParameter	scanEndDate (description="End date of the FTS scan")
<i>Columns</i>	
<i>table dataset</i>	(name="SLWB2", description="null")
<i>Metada- ta</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")

DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
Double1d	wave (description="Frequency", quantity="GHz")
Double1d	flux (description="Flux Density", quantity="Jy")
Double1d	error (description="Uncertainty", quantity="Jy")
Int1d	mask (description="Mask", quantity="1")
Int1d	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SLWB3", description="null")
Meta- data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")

LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
DoubleId	wave (description="Frequency", quantity="GHz")
DoubleId	flux (description="Flux Density", quantity="Jy")
DoubleId	error (description="Uncertainty", quantity="Jy")
IntId	mask (description="Mask", quantity="1")
IntId	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SLWC2", description="null")
Meta- data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
DoubleId	wave (description="Frequency", quantity="GHz")
DoubleId	flux (description="Flux Density", quantity="Jy")
DoubleId	error (description="Uncertainty", quantity="Jy")
IntId	mask (description="Mask", quantity="1")
IntId	numScans (description="Number Of Scans", quantity="1")

<i>table</i>	(name="SLWC3", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Flux Density", quantity="Jy")
<i>DoubleId</i>	error (description="Uncertainty", quantity="Jy")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i>	(name="SLWC4", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")

StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>Double1d</i>	wave (description="Frequency", quantity="GHz")
<i>Double1d</i>	flux (description="Flux Density", quantity="Jy")
<i>Double1d</i>	error (description="Uncertainty", quantity="Jy")
<i>Int1d</i>	mask (description="Mask", quantity="1")
<i>Int1d</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SLWD2", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")

StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>Double1d</i>	wave (description="Frequency", quantity="GHz")
<i>Double1d</i>	flux (description="Flux Density", quantity="Jy")
<i>Double1d</i>	error (description="Uncertainty", quantity="Jy")
<i>Int1d</i>	mask (description="Mask", quantity="1")
<i>Int1d</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SLWD3", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")

DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
Double1d	wave (description="Frequency", quantity="GHz")
Double1d	flux (description="Flux Density", quantity="Jy")
Double1d	error (description="Uncertainty", quantity="Jy")
Int1d	mask (description="Mask", quantity="1")
Int1d	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SSWB2", description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	

<i>Double1d</i>	wave (description="Frequency", quantity="GHz")
<i>Double1d</i>	flux (description="Flux Density", quantity="Jy")
<i>Double1d</i>	error (description="Uncertainty", quantity="Jy")
<i>Int1d</i>	mask (description="Mask", quantity="1")
<i>Int1d</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWB3", description="null")
<i>Meta- ta</i>	
<i>DoublePa- rameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoublePa- rameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>StringPa- rameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoublePa- rameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given in- terferogram/spectrum", quantity="deg")
<i>LongPa- rameter</i>	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
<i>Quantifi- ableParam- eter</i>	waveunit (description="null", quantity="deg")
<i>StringPa- rameter</i>	wavedescription (description="Description of WaveColumn", quantity="deg")
<i>DoublePa- rameter</i>	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
<i>DoublePa- rameter</i>	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
<i>DoublePa- rameter</i>	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
<i>DoublePa- rameter</i>	deltaOpd (description="OPD Step Size", quantity="cm")
<i>DoublePa- rameter</i>	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
<i>LongPa- rameter</i>	numFft (description="Number of unique samples in the FFT", quantity="GHz")
<i>LongPa- rameter</i>	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>Double1d</i>	wave (description="Frequency", quantity="GHz")
<i>Double1d</i>	flux (description="Flux Density", quantity="Jy")
<i>Double1d</i>	error (description="Uncertainty", quantity="Jy")
<i>Int1d</i>	mask (description="Mask", quantity="1")
<i>Int1d</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWB4", description="null")

<i>Meta-</i>	<i>data</i>	
DoublePa-	parameter	dec (description="Dec pointing for this channel", quantity="deg")
DoublePa-	parameter	ra (description="Ra pointing for this channel", quantity="deg")
StringPa-	parameter	channelName (description="Channel name", quantity="deg")
DoublePa-	parameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongPa-	parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
Quantifi-	ableParam-	waveunit (description="null", quantity="deg")
StringPa-	parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoublePa-	parameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoublePa-	parameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoublePa-	parameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoublePa-	parameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoublePa-	parameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongPa-	parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongPa-	parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
<i>DoubleId</i>		wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>		flux (description="Flux Density", quantity="Jy")
<i>DoubleId</i>		error (description="Uncertainty", quantity="Jy")
<i>IntId</i>		mask (description="Mask", quantity="1")
<i>IntId</i>		numScans (description="Number Of Scans", quantity="1")
<i>table</i>	<i>dataset</i>	(name="SSWC2", description="null")
<i>Meta-</i>	<i>data</i>	
DoublePa-	parameter	dec (description="Dec pointing for this channel", quantity="deg")
DoublePa-	parameter	ra (description="Ra pointing for this channel", quantity="deg")
StringPa-	parameter	channelName (description="Channel name", quantity="deg")

DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
DoubleId	wave (description="Frequency", quantity="GHz")
DoubleId	flux (description="Flux Density", quantity="Jy")
DoubleId	error (description="Uncertainty", quantity="Jy")
IntId	mask (description="Mask", quantity="1")
IntId	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SSWC3", description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")

DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
DoubleId	wave (description="Frequency", quantity="GHz")
DoubleId	flux (description="Flux Density", quantity="Jy")
DoubleId	error (description="Uncertainty", quantity="Jy")
IntId	mask (description="Mask", quantity="1")
IntId	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SSWC4", description="null")
Meta- data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")

DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
DoubleId	wave (description="Frequency", quantity="GHz")
DoubleId	flux (description="Flux Density", quantity="Jy")
DoubleId	error (description="Uncertainty", quantity="Jy")
IntId	mask (description="Mask", quantity="1")
IntId	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SSWC5", description="null")
Meta- data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
DoubleId	wave (description="Frequency", quantity="GHz")

<i>Double1d</i>	flux (description="Flux Density", quantity="Jy")
<i>Double1d</i>	error (description="Uncertainty", quantity="Jy")
<i>Int1d</i>	mask (description="Mask", quantity="1")
<i>Int1d</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i> <i>dataset</i>	(name="SSWD2", description="null")
<i>Metada- ta</i>	
DoublePa- rameter	dec (description="Dec pointing for this channel", quantity="deg")
DoublePa- rameter	ra (description="Ra pointing for this channel", quantity="deg")
StringPa- rameter	channelName (description="Channel name", quantity="deg")
DoublePa- rameter	qcResidualPhase (description="The maximum in-band residual phase for a given in- terferogram/spectrum", quantity="deg")
LongPa- rameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
Quantifi- ableParam- eter	waveunit (description="null", quantity="deg")
StringPa- rameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoublePa- rameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoublePa- rameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoublePa- rameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoublePa- rameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoublePa- rameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongPa- rameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongPa- rameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>Double1d</i>	wave (description="Frequency", quantity="GHz")
<i>Double1d</i>	flux (description="Flux Density", quantity="Jy")
<i>Double1d</i>	error (description="Uncertainty", quantity="Jy")
<i>Int1d</i>	mask (description="Mask", quantity="1")
<i>Int1d</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i> <i>dataset</i>	(name="SSWD3", description="null")
<i>Metada- ta</i>	

DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by $\pm 2\pi$ ", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency ($1/2(\text{deltaOpd})$)", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
Double1d	wave (description="Frequency", quantity="GHz")
Double1d	flux (description="Flux Density", quantity="Jy")
Double1d	error (description="Uncertainty", quantity="Jy")
Int1d	mask (description="Mask", quantity="1")
Int1d	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SSWD4", description="null")
Meta- data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>Double1d</i>	wave (description="Frequency", quantity="GHz")
<i>Double1d</i>	flux (description="Flux Density", quantity="Jy")
<i>Double1d</i>	error (description="Uncertainty", quantity="Jy")
<i>Int1d</i>	mask (description="Mask", quantity="1")
<i>Int1d</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWD6", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")

DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
Double1d	wave (description="Frequency", quantity="GHz")
Double1d	flux (description="Flux Density", quantity="Jy")
Double1d	error (description="Uncertainty", quantity="Jy")
Int1d	mask (description="Mask", quantity="1")
Int1d	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SSWE2", description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")

LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
DoubleId	wave (description="Frequency", quantity="GHz")
DoubleId	flux (description="Flux Density", quantity="Jy")
DoubleId	error (description="Uncertainty", quantity="Jy")
IntId	mask (description="Mask", quantity="1")
IntId	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SSWE3", description="null")
Meta- data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
DoubleId	wave (description="Frequency", quantity="GHz")
DoubleId	flux (description="Flux Density", quantity="Jy")
DoubleId	error (description="Uncertainty", quantity="Jy")

<i>Int1d</i>	mask (description="Mask", quantity="1")
<i>Int1d</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWE4", description="null")
<i>Metada- ta</i>	
DoublePa- rameter	dec (description="Dec pointing for this channel", quantity="deg")
DoublePa- rameter	ra (description="Ra pointing for this channel", quantity="deg")
StringPa- rameter	channelName (description="Channel name", quantity="deg")
DoublePa- rameter	qcResidualPhase (description="The maximum in-band residual phase for a given in- terferogram/spectrum", quantity="deg")
LongPa- rameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
Quantifi- ableParam- eter	waveunit (description="null", quantity="deg")
StringPa- rameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoublePa- rameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoublePa- rameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoublePa- rameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoublePa- rameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoublePa- rameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongPa- rameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongPa- rameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>Double1d</i>	wave (description="Frequency", quantity="GHz")
<i>Double1d</i>	flux (description="Flux Density", quantity="Jy")
<i>Double1d</i>	error (description="Uncertainty", quantity="Jy")
<i>Int1d</i>	mask (description="Mask", quantity="1")
<i>Int1d</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWE5", description="null")
<i>Metada- ta</i>	
DoublePa- rameter	dec (description="Dec pointing for this channel", quantity="deg")

DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>Double1d</i>	wave (description="Frequency", quantity="GHz")
<i>Double1d</i>	flux (description="Flux Density", quantity="Jy")
<i>Double1d</i>	error (description="Uncertainty", quantity="Jy")
<i>Int1d</i>	mask (description="Mask", quantity="1")
<i>Int1d</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWF2", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")

QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
Double1d	wave (description="Frequency", quantity="GHz")
Double1d	flux (description="Flux Density", quantity="Jy")
Double1d	error (description="Uncertainty", quantity="Jy")
Int1d	mask (description="Mask", quantity="1")
Int1d	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SSWF3", description="null")
Meta- data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")

DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
Double1d	wave (description="Frequency", quantity="GHz")
Double1d	flux (description="Flux Density", quantity="Jy")
Double1d	error (description="Uncertainty", quantity="Jy")
Int1d	mask (description="Mask", quantity="1")
Int1d	numScans (description="Number Of Scans", quantity="1")

5.4.26. SPIRE Product Level 2 - Spectral Simple Cube

<i>product (type="SSC", description="Spectral Simple Cube")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	telescope (description="Name of telescope")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")

StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	pointNum (description="Pointing number")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	commandedResolution (description="Commanded Spectral Resolution")
DoubleParameter	biasFreq (description="Bias frequency", quantity="Hz")
StringParameter	elecSide (description="Electronic side", quantity="Hz")
StringParameter	missionConfig (description="Mission configuration", quantity="Hz")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	raDecOffset (description="The offset between the commanded position and the actual reconstructed pointing, which includes any systematic BSM offset (bsmOffset), but not the APE.", quantity="arcsec")
DoubleParameter	bsmOffset (description="BSM offset position (0.0 or 1.7 arcsec), which is corrected for by the point-source calibration. This systematic offset is included in the raDecOffset value.", quantity="arcsec")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="GHz")
StringParameter	origin (description="Site that created the product", quantity="GHz")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="GHz")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="GHz")
StringParameter	calVersion (description="Calibration version", quantity="GHz")
StringParameter	level (description="The level of the product", quantity="GHz")
StringParameter	processResolution (description="The resolution that is to be used or was used to process the data", quantity="GHz")
LongParameter	numScans (description="Number of Scans", quantity="GHz")

StringParameter	bbTypeName (description="Building block type name", quantity="GHz")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="GHz")
StringParameter	apodType (description="Type of Apodization applied", quantity="GHz")
StringParameter	apodName (description="Name of Apodization function applied", quantity="GHz")
BooleanParameter	phaseCorrApplied (description="Phase correction has been applied", quantity="GHz")
StringParameter	signalTable (description="Name of the signal table", quantity="GHz")
LongParameter	maskDead (description="Mask value for dead channel", quantity="GHz")
LongParameter	maskMaster (description="Mask value for master bit", quantity="GHz")
LongParameter	maskNoisy (description="Mask value for noisy channel", quantity="GHz")
LongParameter	maskSlow (description="Mask value for slow channel", quantity="GHz")
BooleanParameter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="GHz")
LongParameter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="GHz")
LongParameter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="GHz")
LongParameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="GHz")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="GHz")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="GHz")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
DoubleParameter	slwBiasAmpl (description="SLW bias amplitude", quantity="V")
DoubleParameter	sswBiasAmpl (description="SSW bias amplitude", quantity="V")
DoubleParameter	slwBiasPhase (description="SLW bias phase", quantity="rad")
DoubleParameter	sswBiasPhase (description="SSW bias phase", quantity="rad")
BooleanParameter	rcRollApp (description="RC roll correction applied", quantity="rad")
LongParameter	maskGlitchL1Detected (description="Mask value for first level glitch detected", quantity="rad")
LongParameter	maskGlitchL1NotRemoved (description="Mask value for first level glitch detected and not removed", quantity="rad")
LongParameter	numberBelowK3VoltageSSW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="rad")
LongParameter	numberBelowK3VoltageSLW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="rad")
LongParameter	maskVoltageOol (description="Mask value for voltage out of fitted range", quantity="rad")

LongParameter	maskVoltageBelowK3 (description="Mask value for voltage below K3", quantity="rad")
LongParameter	maskNoRespData (description="Mask value for voltage out of fitted range and/or below K3", quantity="rad")
BooleanParameter	SpecNonLinearityCorrectionDone (description="null", quantity="rad")
StringParameter	respControlStamp (description="null", quantity="rad")
LongParameter	numberClippedDetectorsSLW (description="Maximum number of detectors in SLW where at least one sample was flagged as clipped and could not be corrected", quantity="rad")
LongParameter	numberClippedDetectorsSSW (description="Maximum number of detectors in SSW where at least one sample was flagged as clipped and could not be corrected", quantity="rad")
LongParameter	missedFringes (description="Maximum number of missed optical encoder fringes", quantity="rad")
LongParameter	smecOpenLoopCount (description="Number of housekeeping entries which indicate that the SMEC is not in closed loop", quantity="rad")
LongParameter	wrongBaselineSSW (description="Maximum number of detectors in SSW where the removed baseline is not a good approximation of the actual baseline in the interferogram", quantity="rad")
LongParameter	wrongBaselineSLW (description="Maximum number of detectors in SLW where the removed baseline is not a good approximation of the actual baseline in the interferogram", quantity="rad")
LongParameter	maskGlitchDetected (description="Mask value for glitch detected", quantity="rad")
LongParameter	maskGlitchNotRemoved (description="Mask value for glitch detected and not removed", quantity="rad")
LongParameter	maskUnreliableParameter (description="Mask value for unreliable telemetry parameter", quantity="rad")
LongParameter	maskNotChoppedToSky (description="Mask value for channel not chopped to sky", quantity="rad")
LongParameter	maskGlitchL2Detected (description="Mask value for second level glitch detected", quantity="rad")
LongParameter	maskGlitchL2NotRemoved (description="Mask value for second level glitch detected and not removed", quantity="rad")
LongParameter	maskTsignalHdv (description="Mask value for thermistor/DP signal deviations are larger than expected", quantity="rad")
LongParameter	maskBsmChopOol (description="Mask value for sample falls outside BSM chop soft limits", quantity="rad")
LongParameter	maskBsmJiggOol (description="Mask value for sample falls outside BSM Jiggle soft limits", quantity="rad")
LongParameter	maskJumpThermistorsDarksSignal (description="Mask value for signal jump in the thermistor/dark timeline", quantity="rad")
LongParameter	maskNoThermistorAvailable (description="Mask value for all the available thermistors are affected by either saturation or signal jump", quantity="rad")
LongParameter	maskNonNominalVelocity (description="Mask value for sample is not part of the nominal science scans of a scan map", quantity="rad")
LongParameter	maskNoDarkChannelAvailable (description="Mask value for all available dark channels in the array are affected by either saturation or signal jump", quantity="rad")

LongParameter	maskSerendipity (description="Mask value for sample belongs to serendipity mode", quantity="rad")
LongParameter	maskTurnaround (description="Mask value for sample belongs to a turnaround section of a scan map", quantity="rad")
DoubleParameter	ratioSpecSecondLevelGlitchIdentificationProblemsSSW (description="Maximum ratio of number of data samples where there were not enough valid scans to perform statistical outlier detection over the total number of data samples in the detectors of the SSW array", quantity="rad")
DoubleParameter	ratioSpecSecondLevelGlitchIdentificationProblemsSLW (description="Maximum ratio of number of data samples where there were not enough valid scans to perform statistical outlier detection over the total number of data samples in the detectors of the SLW array", quantity="rad")
LongParameter	numberSecondLevelGlitchCorrectionProblemsSSW (description="Maximum number of cases where a data sample from a SSW detector that was flagged as a glitch was not corrected", quantity="rad")
LongParameter	numberSecondLevelGlitchCorrectionProblemsSLW (description="Maximum number of cases where a data sample from a SLW detector that was flagged as a glitch was not corrected", quantity="rad")
LongParameter	phaseWrapSLW (description="Maximum number of times that in-band phase changes by +/-2pi in any of the SLW detectors", quantity="rad")
LongParameter	phaseWrapSSW (description="Maximum number of times that in-band phase changes by +/-2pi in any of the SSW detectors", quantity="rad")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="rad")
StringParameter	fileName (description="null", quantity="rad")
LongParameter	photObsid000 (description="SPIRE photometer map obsid that overlaps with this observation - 000", quantity="rad")
LongParameter	photObsid001 (description="SPIRE photometer map obsid that overlaps with this observation - 001", quantity="rad")
LongParameter	photObsid002 (description="SPIRE photometer map obsid that overlaps with this observation - 002", quantity="rad")
LongParameter	photObsid003 (description="SPIRE photometer map obsid that overlaps with this observation - 003", quantity="rad")
<i>Columns</i>	
<i>array dataset</i>	(description="Brightness")
<i>Metadata</i>	
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
StringParameter	cunit3 (description="WCS: Unit axis 3, default="")
StringParameter	radesys (description="WCS: Reference frame, default="ICRS")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")

DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crval3 (description="WCS: Wavelength, time, ... of reference layer; unit=length,time,...")
DoubleParameter	crpix3 (description="WCS: Reference layer index, unit=Scalar")
DoubleParameter	cdelt3 (description="WCS: Scale in 3rd dimension, unit=Length, Duration, ...")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represents")
<i>Columns</i>	
<i>Double3d</i>	(description="Brightness", quantity="W m-2 Hz-1 sr-1")

5.4.27. SPIRE Product Level 2 - Spire Preprocessed Cube

<i>product (type="SPC", description="Spire Preprocessed Cube")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	pointNum (description="Pointing number")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	commandedResolution (description="Commanded Spectral Resolution")
DoubleParameter	biasFreq (description="Bias frequency", quantity="Hz")
StringParameter	elecSide (description="Electronic side", quantity="Hz")

StringParameter	modelName (description="Model name attached to this product", quantity="Hz")
StringParameter	formatVersion (description="Version of product format", quantity="Hz")
StringParameter	missionConfig (description="Mission configuration", quantity="Hz")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	raDecOffset (description="The offset between the commanded position and the actual reconstructed pointing, which includes any systematic BSM offset (bsmOffset), but not the APE.", quantity="arcsec")
DoubleParameter	bsmOffset (description="BSM offset position (0.0 or 1.7 arcsec), which is corrected for by the point-source calibration. This systematic offset is included in the raDecOffset value.", quantity="arcsec")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
StringParameter	origin (description="Site that created the product", quantity="GHz")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="GHz")
StringParameter	type (description="Product Type Identification", quantity="GHz")
StringParameter	description (description="Name of this product", quantity="GHz")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="GHz")
StringParameter	calVersion (description="Calibration version", quantity="GHz")
StringParameter	level (description="The level of the product", quantity="GHz")
StringParameter	processResolution (description="The resolution that is to be used or was used to process the data", quantity="GHz")
LongParameter	numScans (description="Number of Scans", quantity="GHz")
StringParameter	bbTypeName (description="Building block type name", quantity="GHz")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="GHz")
StringParameter	apodType (description="Type of Apodization applied", quantity="GHz")

StringParameter	apodName (description="Name of Apodization function applied", quantity="GHz")
BooleanParameter	phaseCorrApplied (description="Phase correction has been applied", quantity="GHz")
StringParameter	signalTable (description="Name of the signal table", quantity="GHz")
LongParameter	maskDead (description="Mask value for dead channel", quantity="GHz")
LongParameter	maskMaster (description="Mask value for master bit", quantity="GHz")
LongParameter	maskNoisy (description="Mask value for noisy channel", quantity="GHz")
LongParameter	maskSlow (description="Mask value for slow channel", quantity="GHz")
BooleanParameter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="GHz")
LongParameter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="GHz")
LongParameter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="GHz")
LongParameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="GHz")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="GHz")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="GHz")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
DoubleParameter	slwBiasAmpl (description="SLW bias amplitude", quantity="V")
DoubleParameter	sswBiasAmpl (description="SSW bias amplitude", quantity="V")
DoubleParameter	slwBiasPhase (description="SLW bias phase", quantity="rad")
DoubleParameter	sswBiasPhase (description="SSW bias phase", quantity="rad")
BooleanParameter	rcRollApp (description="RC roll correction applied", quantity="rad")
LongParameter	maskGlitchL1Detected (description="Mask value for first level glitch detected", quantity="rad")
LongParameter	maskGlitchL1NotRemoved (description="Mask value for first level glitch detected and not removed", quantity="rad")
LongParameter	numberBelowK3VoltageSSW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="rad")
LongParameter	numberBelowK3VoltageSLW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="rad")
LongParameter	maskVoltageOol (description="Mask value for voltage out of fitted range", quantity="rad")
LongParameter	maskVoltageBelowK3 (description="Mask value for voltage below K3", quantity="rad")

LongParameter	maskNoRespData (description="Mask value for voltage out of fitted range and/or below K3", quantity="rad")
BooleanParameter	SpecNonLinearityCorrectionDone (description="null", quantity="rad")
StringParameter	respControlStamp (description="null", quantity="rad")
LongParameter	numberClippedDetectorsSLW (description="Maximum number of detectors in SLW where at least one sample was flagged as clipped and could not be corrected", quantity="rad")
LongParameter	numberClippedDetectorsSSW (description="Maximum number of detectors in SSW where at least one sample was flagged as clipped and could not be corrected", quantity="rad")
LongParameter	missedFringes (description="Maximum number of missed optical encoder fringes", quantity="rad")
LongParameter	smecOpenLoopCount (description="Number of housekeeping entries which indicate that the SMEC is not in closed loop", quantity="rad")
LongParameter	wrongBaselineSSW (description="Maximum number of detectors in SSW where the removed baseline is not a good approximation of the actual baseline in the interferogram", quantity="rad")
LongParameter	wrongBaselineSLW (description="Maximum number of detectors in SLW where the removed baseline is not a good approximation of the actual baseline in the interferogram", quantity="rad")
LongParameter	maskGlitchDetected (description="Mask value for glitch detected", quantity="rad")
LongParameter	maskGlitchNotRemoved (description="Mask value for glitch detected and not removed", quantity="rad")
LongParameter	maskUnreliableParameter (description="Mask value for unreliable telemetry parameter", quantity="rad")
LongParameter	maskNotChoppedToSky (description="Mask value for channel not chopped to sky", quantity="rad")
LongParameter	maskGlitchL2Detected (description="Mask value for second level glitch detected", quantity="rad")
LongParameter	maskGlitchL2NotRemoved (description="Mask value for second level glitch detected and not removed", quantity="rad")
LongParameter	maskTsignalHdv (description="Mask value for thermistor/DP signal deviations are larger than expected", quantity="rad")
LongParameter	maskBsmChopOol (description="Mask value for sample falls outside BSM chop soft limits", quantity="rad")
LongParameter	maskBsmJiggOol (description="Mask value for sample falls outside BSM Jiggle soft limits", quantity="rad")
LongParameter	maskJumpThermistorsDarksSignal (description="Mask value for signal jump in the thermistor/dark timeline", quantity="rad")
LongParameter	maskNoThermistorAvailable (description="Mask value for all the available thermistors are affected by either saturation or signal jump", quantity="rad")
LongParameter	maskNonNominalVelocity (description="Mask value for sample is not part of the nominal science scans of a scan map", quantity="rad")
LongParameter	maskNoDarkChannelAvailable (description="Mask value for all available dark channels in the array are affected by either saturation or signal jump", quantity="rad")
LongParameter	maskSerendipity (description="Mask value for sample belongs to serendipity mode", quantity="rad")

LongParameter	maskTurnaround (description="Mask value for sample belongs to a turnaround section of a scan map", quantity="rad")
DoubleParameter	ratioSpecSecondLevelGlitchIdentificationProblemsSSW (description="Maximum ratio of number of data samples where there were not enough valid scans to perform statistical outlier detection over the total number of data samples in the detectors of the SSW array", quantity="rad")
DoubleParameter	ratioSpecSecondLevelGlitchIdentificationProblemsSLW (description="Maximum ratio of number of data samples where there were not enough valid scans to perform statistical outlier detection over the total number of data samples in the detectors of the SLW array", quantity="rad")
LongParameter	numberSecondLevelGlitchCorrectionProblemsSSW (description="Maximum number of cases where a data sample from a SSW detector that was flagged as a glitch was not corrected", quantity="rad")
LongParameter	numberSecondLevelGlitchCorrectionProblemsSLW (description="Maximum number of cases where a data sample from a SLW detector that was flagged as a glitch was not corrected", quantity="rad")
LongParameter	phaseWrapSLW (description="Maximum number of times that in-band phase changes by +/-2pi in any of the SLW detectors", quantity="rad")
LongParameter	phaseWrapSSW (description="Maximum number of times that in-band phase changes by +/-2pi in any of the SSW detectors", quantity="rad")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="rad")
StringParameter	fileName (description="null", quantity="rad")
LongParameter	photObsid000 (description="SPIRE photometer map obsid that overlaps with this observation - 000", quantity="rad")
LongParameter	photObsid001 (description="SPIRE photometer map obsid that overlaps with this observation - 001", quantity="rad")
LongParameter	photObsid002 (description="SPIRE photometer map obsid that overlaps with this observation - 002", quantity="rad")
LongParameter	photObsid003 (description="SPIRE photometer map obsid that overlaps with this observation - 003", quantity="rad")
<i>Columns</i>	
<i>table dataset</i>	(name="spectrum2d", description="null")
<i>Metadata</i>	
LongParameter	channels (description="Number of channels")
StringParameter	wavedescription (description="Description of WaveColumn")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>Double2d</i>	wave (description="Frequency", quantity="GHz")
<i>Double2d</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>Double2d</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>Double1d</i>	longitude (description="Ra pointing for this channel", quantity="deg")
<i>Double1d</i>	latitude (description="Dec pointing for this channel", quantity="deg")
<i>Int2d</i>	mask (description="Mask", quantity="1")
<i>Int2d</i>	numScans (description="Number Of Scans", quantity="1")
<i>String1d</i>	detector (description="null", quantity="none")
<i>Double1d</i>	resolution (description="null", quantity="none")

<i>LongId</i>	jiggId (description="null", quantity="none")
<i>LongId</i>	pointNum (description="null", quantity="none")
<i>LongId</i>	numFft (description="null", quantity="none")
<i>LongId</i>	numFftFull (description="null", quantity="none")
<i>DoubleId</i>	nyquist (description="null", quantity="none")
<i>DoubleId</i>	maxOpd (description="null", quantity="none")
<i>DoubleId</i>	minOpd (description="null", quantity="none")
<i>DoubleId</i>	deltaOpd (description="null", quantity="none")

5.4.28. SPIRE Product Level 2 - Spectral Simple Cube

<i>product (type="SSC", description="Spectral Simple Cube")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	telescope (description="Name of telescope")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	pointNum (description="Pointing number")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	commandedResolution (description="Commanded Spectral Resolution")

DoubleParameter	biasFreq (description="Bias frequency", quantity="Hz")
StringParameter	elecSide (description="Electronic side", quantity="Hz")
StringParameter	missionConfig (description="Mission configuration", quantity="Hz")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	raDecOffset (description="The offset between the commanded position and the actual reconstructed pointing, which includes any systematic BSM offset (bsmOffset), but not the APE", quantity="arcsec")
DoubleParameter	bsmOffset (description="BSM offset position (0.0 or 1.7 arcsec), which is corrected for by the point-source calibration. This systematic offset is included in the raDecOffset value", quantity="arcsec")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="GHz")
StringParameter	origin (description="Site that created the product", quantity="GHz")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="GHz")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in the engineering conversion", quantity="GHz")
StringParameter	calVersion (description="Calibration version", quantity="GHz")
StringParameter	level (description="The level of the product", quantity="GHz")
StringParameter	processResolution (description="The resolution used to process the data", quantity="GHz")
LongParameter	numScans (description="Number of Scans", quantity="GHz")
StringParameter	bbTypeName (description="Building block type name", quantity="GHz")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="GHz")
StringParameter	apodType (description="Type of Apodization applied", quantity="GHz")
StringParameter	apodName (description="Name of Apodization function applied", quantity="GHz")

BooleanParameter	phaseCorrApplied (description="Phase correction has been applied", quantity="GHz")
StringParameter	signalTable (description="Name of the signal table", quantity="GHz")
LongParameter	maskDead (description="Mask value for dead channel", quantity="GHz")
LongParameter	maskMaster (description="Mask value for master bit", quantity="GHz")
LongParameter	maskNoisy (description="Mask value for noisy channel", quantity="GHz")
LongParameter	maskSlow (description="Mask value for slow channel", quantity="GHz")
BooleanParameter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="GHz")
LongParameter	maskAdcLatch (description="Mask value for possible ADC latching error", quantity="GHz")
LongParameter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="GHz")
LongParameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="GHz")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="GHz")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="GHz")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
DoubleParameter	slwBiasAmpl (description="SLW bias amplitude", quantity="V")
DoubleParameter	sswBiasAmpl (description="SSW bias amplitude", quantity="V")
DoubleParameter	slwBiasPhase (description="SLW bias phase", quantity="rad")
DoubleParameter	sswBiasPhase (description="SSW bias phase", quantity="rad")
BooleanParameter	rcRollApp (description="RC roll correction applied", quantity="rad")
LongParameter	maskGlitchL1Detected (description="Mask value for first level glitch detected", quantity="rad")
LongParameter	maskGlitchL1NotRemoved (description="Mask value for first level glitch detected and not removed", quantity="rad")
LongParameter	numberBelowK3VoltageSSW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="rad")
DoubleParameter	ratioSamplesOutOfCalibrationRangeSLW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="rad")
LongParameter	numberBelowK3VoltageSLW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="rad")
LongParameter	maskVoltageOol (description="Mask value for voltage out of fitted range", quantity="rad")
LongParameter	maskVoltageBelowK3 (description="Mask value for voltage below K3", quantity="rad")

LongParameter	maskNoRespData (description="Mask value for voltage out of fitted range and/or below K3", quantity="rad")
BooleanParameter	SpecNonLinearityCorrectionDone (description="Non-linearity correction has been applied", quantity="rad")
DateParameter	respControlStamp (description="Control Stamp used to ensure synchronization of Flux Conversion and Temperature Drift correction tasks", quantity="rad")
LongParameter	numberClippedDetectorsSLW (description="Maximum number of detectors in SLW where at least one sample was flagged as clipped and could not be corrected", quantity="rad")
LongParameter	numberClippedDetectorsSSW (description="Maximum number of detectors in SSW where at least one sample was flagged as clipped and could not be corrected", quantity="rad")
LongParameter	missedFringes (description="Maximum number of missed optical encoder fringes", quantity="rad")
LongParameter	smecOpenLoopCount (description="Number of housekeeping entries which indicate that the SMEC is not in closed loop", quantity="rad")
LongParameter	wrongBaselineSSW (description="Maximum number of detectors in SSW where the removed baseline is not a good approximation of the actual baseline in the interferogram", quantity="rad")
LongParameter	wrongBaselineSLW (description="Maximum number of detectors in SLW where the removed baseline is not a good approximation of the actual baseline in the interferogram", quantity="rad")
LongParameter	maskGlitchDetected (description="Mask value for glitch detected", quantity="rad")
LongParameter	maskGlitchNotRemoved (description="Mask value for glitch detected and not removed", quantity="rad")
LongParameter	maskUnreliableParameter (description="Mask value for unreliable telemetry parameter", quantity="rad")
LongParameter	maskNotChoppedToSky (description="Mask value for channel not chopped to sky", quantity="rad")
LongParameter	maskGlitchL2Detected (description="Mask value for second level glitch detected", quantity="rad")
LongParameter	maskGlitchL2NotRemoved (description="Mask value for second level glitch detected and not removed", quantity="rad")
LongParameter	maskTsignalHdv (description="Mask value for thermistor/DP signal deviations are larger than expected", quantity="rad")
LongParameter	maskBsmChopOol (description="Mask value for sample falls outside BSM chop soft limits", quantity="rad")
LongParameter	maskBsmJiggOol (description="Mask value for sample falls outside BSM Jiggle soft limits", quantity="rad")
LongParameter	maskJumpThermistorsDarksSignal (description="Mask value for signal jump in the thermistor/dark timeline", quantity="rad")
LongParameter	maskNoThermistorAvailable (description="Mask value for all the available thermistors are affected by either saturation or signal jump", quantity="rad")
LongParameter	maskNonNominalVelocity (description="Mask value for sample is not part of the nominal science scans of a scan map", quantity="rad")

LongParameter	maskNoDarkChannelAvailable (description="Mask value for all available dark channels in the array are affected by either saturation or signal jump", quantity="rad")
LongParameter	maskSerendipity (description="Mask value for sample belongs to serendipity mode", quantity="rad")
LongParameter	maskTurnaround (description="Mask value for sample belongs to a turnaround section of a scan map", quantity="rad")
DoubleParameter	ratioSpecSecondLevelGlitchIdentificationProblemsSSW (description="Maximum ratio of number of data samples where there were not enough valid scans to perform statistical outlier detection over the total number of data samples in the detectors of the SSW array", quantity="rad")
DoubleParameter	ratioSpecSecondLevelGlitchIdentificationProblemsSLW (description="Maximum ratio of number of data samples where there were not enough valid scans to perform statistical outlier detection over the total number of data samples in the detectors of the SLW array", quantity="rad")
LongParameter	numberSecondLevelGlitchCorrectionProblemsSSW (description="Maximum number of cases where a data sample from a SSW detector that was flagged as a glitch was not corrected", quantity="rad")
LongParameter	numberSecondLevelGlitchCorrectionProblemsSLW (description="Maximum number of cases where a data sample from a SLW detector that was flagged as a glitch was not corrected", quantity="rad")
LongParameter	phaseWrapSLW (description="Maximum number of times that in-band phase changes by +/-2pi in any of the SLW detectors", quantity="rad")
LongParameter	phaseWrapSSW (description="Maximum number of times that in-band phase changes by +/-2pi in any of the SSW detectors", quantity="rad")
DoubleParameter	deltaM2Temp (description="Maximum temperature variation of the telescope 2 temperature (in K)", quantity="K")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="K")
StringParameter	fileName (description="null", quantity="K")
StringParameter	arrayName (description="Name of bolometer array", quantity="K")
LongParameter	photObsid000 (description="SPIRE photometer map obsid that overlaps with this observation - 000", quantity="K")
LongParameter	photObsid001 (description="SPIRE photometer map obsid that overlaps with this observation - 001", quantity="K")
<i>Columns</i>	
<i>array dataset</i>	(description="Brightness")
<i>Metadata</i>	
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
StringParameter	cunit3 (description="WCS: Unit axis 3, default="")
StringParameter	radesys (description="WCS: Reference frame, default="ICRS")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")

DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crval3 (description="WCS: Wavelength, time, ... of reference layer; unit=length,time,...")
DoubleParameter	crpix3 (description="WCS: Reference layer index, unit=Scalar")
DoubleParameter	cdelt3 (description="WCS: Scale in 3rd dimension, unit=Length, Duration, ...")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represents")
<i>Columns</i>	
<i>Double3d</i>	(description="Brightness", quantity="W m-2 Hz-1 sr-1")

5.4.29. SPIRE Product Level 2 - Spire Preprocessed Cube

<i>product (type="SPC", description="Spire Preprocessed Cube")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	pointNum (description="Pointing number")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	commandedResolution (description="Commanded Spectral Resolution")

DoubleParameter	biasFreq (description="Bias frequency", quantity="Hz")
StringParameter	elecSide (description="Electronic side", quantity="Hz")
StringParameter	modelName (description="Model name attached to this product", quantity="Hz")
StringParameter	formatVersion (description="Version of product format", quantity="Hz")
StringParameter	missionConfig (description="Mission configuration", quantity="Hz")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	raDecOffset (description="The offset between the commanded position and the actual reconstructed pointing, which includes any systematic BSM offset (bsmOffset), but not the APE", quantity="arcsec")
DoubleParameter	bsmOffset (description="BSM offset position (0.0 or 1.7 arcsec), which is corrected for by the point-source calibration. This systematic offset is included in the raDecOffset value", quantity="arcsec")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
StringParameter	origin (description="Site that created the product", quantity="GHz")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="GHz")
StringParameter	type (description="Product Type Identification", quantity="GHz")
StringParameter	description (description="Name of this product", quantity="GHz")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in the engineering conversion", quantity="GHz")
StringParameter	calVersion (description="Calibration version", quantity="GHz")
StringParameter	level (description="The level of the product", quantity="GHz")
StringParameter	processResolution (description="The resolution used to process the data", quantity="GHz")
LongParameter	numScans (description="Number of Scans", quantity="GHz")
StringParameter	bbTypeName (description="Building block type name", quantity="GHz")

StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="GHz")
StringParameter	apodType (description="Type of Apodization applied", quantity="GHz")
StringParameter	apodName (description="Name of Apodization function applied", quantity="GHz")
BooleanParameter	phaseCorrApplied (description="Phase correction has been applied", quantity="GHz")
StringParameter	signalTable (description="Name of the signal table", quantity="GHz")
LongParameter	maskDead (description="Mask value for dead channel", quantity="GHz")
LongParameter	maskMaster (description="Mask value for master bit", quantity="GHz")
LongParameter	maskNoisy (description="Mask value for noisy channel", quantity="GHz")
LongParameter	maskSlow (description="Mask value for slow channel", quantity="GHz")
BooleanParameter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="GHz")
LongParameter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="GHz")
LongParameter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="GHz")
LongParameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="GHz")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="GHz")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="GHz")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
DoubleParameter	slwBiasAmpl (description="SLW bias amplitude", quantity="V")
DoubleParameter	sswBiasAmpl (description="SSW bias amplitude", quantity="V")
DoubleParameter	slwBiasPhase (description="SLW bias phase", quantity="rad")
DoubleParameter	sswBiasPhase (description="SSW bias phase", quantity="rad")
BooleanParameter	rcRollApp (description="RC roll correction applied", quantity="rad")
LongParameter	maskGlitchL1Detected (description="Mask value for first level glitch detected", quantity="rad")
LongParameter	maskGlitchL1NotRemoved (description="Mask value for first level glitch detected and not removed", quantity="rad")
LongParameter	numberBelowK3VoltageSSW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="rad")
DoubleParameter	ratioSamplesOutOfCalibrationRangeSLW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="rad")
LongParameter	numberBelowK3VoltageSLW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="rad")

LongParameter	maskVoltageOol (description="Mask value for voltage out of fitted range", quantity="rad")
LongParameter	maskVoltageBelowK3 (description="Mask value for voltage below K3", quantity="rad")
LongParameter	maskNoRespData (description="Mask value for voltage out of fitted range and/or below K3", quantity="rad")
BooleanParameter	SpecNonLinearityCorrectionDone (description="Non-linearity correction has been applied", quantity="rad")
DateParameter	respControlStamp (description="Control Stamp used to ensure synchronization of Flux Conversion and Temperature Drift correction tasks", quantity="rad")
LongParameter	numberClippedDetectorsSLW (description="Maximum number of detectors in SLW where at least one sample was flagged as clipped and could not be corrected", quantity="rad")
LongParameter	numberClippedDetectorsSSW (description="Maximum number of detectors in SSW where at least one sample was flagged as clipped and could not be corrected", quantity="rad")
LongParameter	missedFringes (description="Maximum number of missed optical encoder fringes", quantity="rad")
LongParameter	smecOpenLoopCount (description="Number of housekeeping entries which indicate that the SMEC is not in closed loop", quantity="rad")
LongParameter	wrongBaselineSSW (description="Maximum number of detectors in SSW where the removed baseline is not a good approximation of the actual baseline in the interferogram", quantity="rad")
LongParameter	wrongBaselineSLW (description="Maximum number of detectors in SLW where the removed baseline is not a good approximation of the actual baseline in the interferogram", quantity="rad")
LongParameter	maskGlitchDetected (description="Mask value for glitch detected", quantity="rad")
LongParameter	maskGlitchNotRemoved (description="Mask value for glitch detected and not removed", quantity="rad")
LongParameter	maskUnreliableParameter (description="Mask value for unreliable telemetry parameter", quantity="rad")
LongParameter	maskNotChoppedToSky (description="Mask value for channel not chopped to sky", quantity="rad")
LongParameter	maskGlitchL2Detected (description="Mask value for second level glitch detected", quantity="rad")
LongParameter	maskGlitchL2NotRemoved (description="Mask value for second level glitch detected and not removed", quantity="rad")
LongParameter	maskTsignalHdv (description="Mask value for thermistor/DP signal deviations are larger than expected", quantity="rad")
LongParameter	maskBsmChopOol (description="Mask value for sample falls outside BSM chop soft limits", quantity="rad")
LongParameter	maskBsmJiggOol (description="Mask value for sample falls outside BSM Jiggle soft limits", quantity="rad")
LongParameter	maskJumpThermistorsDarkSignal (description="Mask value for signal jump in the thermistor/dark timeline", quantity="rad")
LongParameter	maskNoThermistorAvailable (description="Mask value for all the available thermistors are affected by either saturation or signal jump", quantity="rad")

LongParameter	maskNonNominalVelocity (description="Mask value for sample is not part of the nominal science scans of a scan map", quantity="rad")
LongParameter	maskNoDarkChannelAvailable (description="Mask value for all available dark channels in the array are affected by either saturation or signal jump", quantity="rad")
LongParameter	maskSerendipity (description="Mask value for sample belongs to serendipity mode", quantity="rad")
LongParameter	maskTurnaround (description="Mask value for sample belongs to a turnaround section of a scan map", quantity="rad")
DoubleParameter	ratioSpecSecondLevelGlitchIdentificationProblemsSSW (description="Maximum ratio of number of data samples where there were not enough valid scans to perform statistical outlier detection over the total number of data samples in the detectors of the SSW array", quantity="rad")
DoubleParameter	ratioSpecSecondLevelGlitchIdentificationProblemsSLW (description="Maximum ratio of number of data samples where there were not enough valid scans to perform statistical outlier detection over the total number of data samples in the detectors of the SLW array", quantity="rad")
LongParameter	numberSecondLevelGlitchCorrectionProblemsSSW (description="Maximum number of cases where a data sample from a SSW detector that was flagged as a glitch was not corrected", quantity="rad")
LongParameter	numberSecondLevelGlitchCorrectionProblemsSLW (description="Maximum number of cases where a data sample from a SLW detector that was flagged as a glitch was not corrected", quantity="rad")
LongParameter	phaseWrapSLW (description="Maximum number of times that in-band phase changes by +/-2pi in any of the SLW detectors", quantity="rad")
LongParameter	phaseWrapSSW (description="Maximum number of times that in-band phase changes by +/-2pi in any of the SSW detectors", quantity="rad")
DoubleParameter	deltaM2Temp (description="Maximum temperature variation of the telescope 2 temperature (in K)", quantity="K")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="K")
StringParameter	fileName (description="null", quantity="K")
StringParameter	arrayName (description="Name of bolometer array", quantity="K")
LongParameter	photObsid000 (description="SPIRE photometer map obsid that overlaps with this observation - 000", quantity="K")
LongParameter	photObsid001 (description="SPIRE photometer map obsid that overlaps with this observation - 001", quantity="K")
Columns	
table dataset	(name="spectrum2d", description="null")
Metadata	
LongParameter	channels (description="Number of channels")
StringParameter	wavedescription (description="Description of WaveColumn")
QuantifiableParameter	waveunit (description="Units of the WaveColumn")
Columns	
Double2d	wave (description="Frequency", quantity="GHz")
Double2d	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
Double2d	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
Double1d	longitude (description="Actual Right Ascension of pointing for this channel", quantity="deg")

<i>Double1d</i>	latitude (description="Actual Declination of pointing for this channel", quantity="deg")
<i>Int2d</i>	mask (description="Mask", quantity="1")
<i>Int2d</i>	numScans (description="Number Of Scans", quantity="1")
<i>String1d</i>	detector (description="null", quantity="none")
<i>Double1d</i>	resolution (description="null", quantity="none")
<i>Long1d</i>	jiggId (description="null", quantity="none")
<i>Long1d</i>	pointNum (description="null", quantity="none")
<i>Long1d</i>	numFft (description="null", quantity="none")
<i>Long1d</i>	numFftFull (description="null", quantity="none")
<i>Double1d</i>	nyquist (description="null", quantity="none")
<i>Double1d</i>	maxOpd (description="null", quantity="none")
<i>Double1d</i>	minOpd (description="null", quantity="none")
<i>Double1d</i>	deltaOpd (description="null", quantity="none")

5.4.30. SPIRE Product Level 2 - Spectral Simple Cube

<i>product (type="SSC", description="Spectral Simple Cube")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	telescope (description="Name of telescope")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")

StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	pointNum (description="Pointing number")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	commandedResolution (description="Commanded Spectral Resolution")
DoubleParameter	biasFreq (description="Bias frequency", quantity="Hz")
StringParameter	elecSide (description="Electronic side", quantity="Hz")
StringParameter	missionConfig (description="Mission configuration", quantity="Hz")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	raDecOffset (description="The offset between the commanded position and the actual reconstructed pointing, which includes any systematic BSM offset (bsmOffset), but not the APE", quantity="arcsec")
DoubleParameter	bsmOffset (description="BSM offset position (0.0 or 1.7 arcsec), which is corrected for by the point-source calibration. This systematic offset is included in the raDecOffset value", quantity="arcsec")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="GHz")
StringParameter	origin (description="Site that created the product", quantity="GHz")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="GHz")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in the engineering conversion", quantity="GHz")
StringParameter	calVersion (description="Calibration version", quantity="GHz")
StringParameter	level (description="The level of the product", quantity="GHz")
StringParameter	processResolution (description="The resolution used to process the data", quantity="GHz")

LongParameter	numScans (description="Number of Scans", quantity="GHz")
StringParameter	bbTypeName (description="Building block type name", quantity="GHz")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="GHz")
StringParameter	apodType (description="Type of Apodization applied", quantity="GHz")
StringParameter	apodName (description="Name of Apodization function applied", quantity="GHz")
BooleanParameter	phaseCorrApplied (description="Phase correction has been applied", quantity="GHz")
StringParameter	signalTable (description="Name of the signal table", quantity="GHz")
LongParameter	maskDead (description="Mask value for dead channel", quantity="GHz")
LongParameter	maskMaster (description="Mask value for master bit", quantity="GHz")
LongParameter	maskNoisy (description="Mask value for noisy channel", quantity="GHz")
LongParameter	maskSlow (description="Mask value for slow channel", quantity="GHz")
BooleanParameter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="GHz")
LongParameter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="GHz")
LongParameter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="GHz")
LongParameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="GHz")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="GHz")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="GHz")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
DoubleParameter	slwBiasAmpl (description="SLW bias amplitude", quantity="V")
DoubleParameter	sswBiasAmpl (description="SSW bias amplitude", quantity="V")
DoubleParameter	slwBiasPhase (description="SLW bias phase", quantity="rad")
DoubleParameter	sswBiasPhase (description="SSW bias phase", quantity="rad")
BooleanParameter	rcRollApp (description="RC roll correction applied", quantity="rad")
LongParameter	maskGlitchL1Detected (description="Mask value for first level glitch detected", quantity="rad")
LongParameter	maskGlitchL1NotRemoved (description="Mask value for first level glitch detected and not removed", quantity="rad")
LongParameter	numberBelowK3VoltageSSW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="rad")
DoubleParameter	ratioSamplesOutOfCalibrationRangeSLW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="rad")

LongParameter	numberBelowK3VoltageSLW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="rad")
LongParameter	maskVoltageOol (description="Mask value for voltage out of fitted range", quantity="rad")
LongParameter	maskVoltageBelowK3 (description="Mask value for voltage below K3", quantity="rad")
LongParameter	maskNoRespData (description="Mask value for voltage out of fitted range and/or below K3", quantity="rad")
BooleanParameter	SpecNonLinearityCorrectionDone (description="Non-linearity correction has been applied", quantity="rad")
DateParameter	respControlStamp (description="Control Stamp used to ensure synchronization of Flux Conversion and Temperature Drift correction tasks", quantity="rad")
LongParameter	numberClippedDetectorsSLW (description="Maximum number of detectors in SLW where at least one sample was flagged as clipped and could not be corrected", quantity="rad")
LongParameter	numberClippedDetectorsSSW (description="Maximum number of detectors in SSW where at least one sample was flagged as clipped and could not be corrected", quantity="rad")
LongParameter	missedFringes (description="Maximum number of missed optical encoder fringes", quantity="rad")
LongParameter	smecOpenLoopCount (description="Number of housekeeping entries which indicate that the SMEC is not in closed loop", quantity="rad")
LongParameter	wrongBaselineSSW (description="Maximum number of detectors in SSW where the removed baseline is not a good approximation of the actual baseline in the interferogram", quantity="rad")
LongParameter	wrongBaselineSLW (description="Maximum number of detectors in SLW where the removed baseline is not a good approximation of the actual baseline in the interferogram", quantity="rad")
LongParameter	maskGlitchDetected (description="Mask value for glitch detected", quantity="rad")
LongParameter	maskGlitchNotRemoved (description="Mask value for glitch detected and not removed", quantity="rad")
LongParameter	maskUnreliableParameter (description="Mask value for unreliable telemetry parameter", quantity="rad")
LongParameter	maskNotChoppedToSky (description="Mask value for channel not chopped to sky", quantity="rad")
LongParameter	maskGlitchL2Detected (description="Mask value for second level glitch detected", quantity="rad")
LongParameter	maskGlitchL2NotRemoved (description="Mask value for second level glitch detected and not removed", quantity="rad")
LongParameter	maskTsignalHdv (description="Mask value for thermistor/DP signal deviations are larger than expected", quantity="rad")
LongParameter	maskBsmChopOol (description="Mask value for sample falls outside BSM chop soft limits", quantity="rad")
LongParameter	maskBsmJiggOol (description="Mask value for sample falls outside BSM Jiggle soft limits", quantity="rad")

LongParameter	maskJumpThermistorsDarksSignal (description="Mask value for signal jump in the thermistor/dark timeline", quantity="rad")
LongParameter	maskNoThermistorAvailable (description="Mask value for all the available thermistors are affected by either saturation or signal jump", quantity="rad")
LongParameter	maskNonNominalVelocity (description="Mask value for sample is not part of the nominal science scans of a scan map", quantity="rad")
LongParameter	maskNoDarkChannelAvailable (description="Mask value for all available dark channels in the array are affected by either saturation or signal jump", quantity="rad")
LongParameter	maskSerendipity (description="Mask value for sample belongs to serendipity mode", quantity="rad")
LongParameter	maskTurnaround (description="Mask value for sample belongs to a turnaround section of a scan map", quantity="rad")
DoubleParameter	ratioSpecSecondLevelGlitchIdentificationProblemsSSW (description="Maximum ratio of number of data samples where there were not enough valid scans to perform statistical outlier detection over the total number of data samples in the detectors of the SSW array", quantity="rad")
DoubleParameter	ratioSpecSecondLevelGlitchIdentificationProblemsSLW (description="Maximum ratio of number of data samples where there were not enough valid scans to perform statistical outlier detection over the total number of data samples in the detectors of the SLW array", quantity="rad")
LongParameter	numberSecondLevelGlitchCorrectionProblemsSSW (description="Maximum number of cases where a data sample from a SSW detector that was flagged as a glitch was not corrected", quantity="rad")
LongParameter	numberSecondLevelGlitchCorrectionProblemsSLW (description="Maximum number of cases where a data sample from a SLW detector that was flagged as a glitch was not corrected", quantity="rad")
LongParameter	phaseWrapSLW (description="Maximum number of times that in-band phase changes by +/-2pi in any of the SLW detectors", quantity="rad")
LongParameter	phaseWrapSSW (description="Maximum number of times that in-band phase changes by +/-2pi in any of the SSW detectors", quantity="rad")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="rad")
StringParameter	fileName (description="null", quantity="rad")
StringParameter	arrayName (description="Name of bolometer array", quantity="rad")
LongParameter	photObsid000 (description="SPIRE photometer map obsid that overlaps with this observation - 000", quantity="rad")
LongParameter	photObsid001 (description="SPIRE photometer map obsid that overlaps with this observation - 001", quantity="rad")
<i>Columns</i>	
<i>array dataset</i>	(description="Brightness")
<i>Metadata</i>	
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
StringParameter	cunit3 (description="WCS: Unit axis 3, default="")
StringParameter	radesys (description="WCS: Reference frame, default="ICRS")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")

StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crval3 (description="WCS: Wavelength, time, ... of reference layer; unit=length,time,...")
DoubleParameter	crpix3 (description="WCS: Reference layer index, unit=Scalar")
DoubleParameter	cdelt3 (description="WCS: Scale in 3rd dimension, unit=Length, Duration, ...")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represents")
<i>Columns</i>	
<i>Double3d</i>	(description="Brightness", quantity="W m-2 Hz-1 sr-1")

5.4.31. SPIRE Product Level 2 - Spire Preprocessed Cube

<i>product (type="SPC", description="Spire Preprocessed Cube")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	pointNum (description="Pointing number")

LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	commandedResolution (description="Commanded Spectral Resolution")
DoubleParameter	biasFreq (description="Bias frequency", quantity="Hz")
StringParameter	elecSide (description="Electronic side", quantity="Hz")
StringParameter	modelName (description="Model name attached to this product", quantity="Hz")
StringParameter	formatVersion (description="Version of product format", quantity="Hz")
StringParameter	missionConfig (description="Mission configuration", quantity="Hz")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	raDecOffset (description="The offset between the commanded position and the actual reconstructed pointing, which includes any systematic BSM offset (bsmOffset), but not the APE", quantity="arcsec")
DoubleParameter	bsmOffset (description="BSM offset position (0.0 or 1.7 arcsec), which is corrected for by the point-source calibration. This systematic offset is included in the raDecOffset value", quantity="arcsec")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
StringParameter	origin (description="Site that created the product", quantity="GHz")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="GHz")
StringParameter	type (description="Product Type Identification", quantity="GHz")
StringParameter	description (description="Name of this product", quantity="GHz")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in the engineering conversion", quantity="GHz")
StringParameter	calVersion (description="Calibration version", quantity="GHz")
StringParameter	level (description="The level of the product", quantity="GHz")
StringParameter	processResolution (description="The resolution used to process the data", quantity="GHz")

LongParameter	numScans (description="Number of Scans", quantity="GHz")
StringParameter	bbTypeName (description="Building block type name", quantity="GHz")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="GHz")
StringParameter	apodType (description="Type of Apodization applied", quantity="GHz")
StringParameter	apodName (description="Name of Apodization function applied", quantity="GHz")
BooleanParameter	phaseCorrApplied (description="Phase correction has been applied", quantity="GHz")
StringParameter	signalTable (description="Name of the signal table", quantity="GHz")
LongParameter	maskDead (description="Mask value for dead channel", quantity="GHz")
LongParameter	maskMaster (description="Mask value for master bit", quantity="GHz")
LongParameter	maskNoisy (description="Mask value for noisy channel", quantity="GHz")
LongParameter	maskSlow (description="Mask value for slow channel", quantity="GHz")
BooleanParameter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="GHz")
LongParameter	maskAdcLatch (description="Mask value for possible ADC latching error", quantity="GHz")
LongParameter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="GHz")
LongParameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="GHz")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="GHz")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="GHz")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
DoubleParameter	slwBiasAmpl (description="SLW bias amplitude", quantity="V")
DoubleParameter	sswBiasAmpl (description="SSW bias amplitude", quantity="V")
DoubleParameter	slwBiasPhase (description="SLW bias phase", quantity="rad")
DoubleParameter	sswBiasPhase (description="SSW bias phase", quantity="rad")
BooleanParameter	rcRollApp (description="RC roll correction applied", quantity="rad")
LongParameter	maskGlitchL1Detected (description="Mask value for first level glitch detected", quantity="rad")
LongParameter	maskGlitchL1NotRemoved (description="Mask value for first level glitch detected and not removed", quantity="rad")
LongParameter	numberBelowK3VoltageSSW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="rad")
DoubleParameter	ratioSamplesOutOfCalibrationRangeSLW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="rad")

LongParameter	numberBelowK3VoltageSLW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="rad")
LongParameter	maskVoltageOol (description="Mask value for voltage out of fitted range", quantity="rad")
LongParameter	maskVoltageBelowK3 (description="Mask value for voltage below K3", quantity="rad")
LongParameter	maskNoRespData (description="Mask value for voltage out of fitted range and/or below K3", quantity="rad")
BooleanParameter	SpecNonLinearityCorrectionDone (description="Non-linearity correction has been applied", quantity="rad")
DateParameter	respControlStamp (description="Control Stamp used to ensure synchronization of Flux Conversion and Temperature Drift correction tasks", quantity="rad")
LongParameter	numberClippedDetectorsSLW (description="Maximum number of detectors in SLW where at least one sample was flagged as clipped and could not be corrected", quantity="rad")
LongParameter	numberClippedDetectorsSSW (description="Maximum number of detectors in SSW where at least one sample was flagged as clipped and could not be corrected", quantity="rad")
LongParameter	missedFringes (description="Maximum number of missed optical encoder fringes", quantity="rad")
LongParameter	smecOpenLoopCount (description="Number of housekeeping entries which indicate that the SMEC is not in closed loop", quantity="rad")
LongParameter	wrongBaselineSSW (description="Maximum number of detectors in SSW where the removed baseline is not a good approximation of the actual baseline in the interferogram", quantity="rad")
LongParameter	wrongBaselineSLW (description="Maximum number of detectors in SLW where the removed baseline is not a good approximation of the actual baseline in the interferogram", quantity="rad")
LongParameter	maskGlitchDetected (description="Mask value for glitch detected", quantity="rad")
LongParameter	maskGlitchNotRemoved (description="Mask value for glitch detected and not removed", quantity="rad")
LongParameter	maskUnreliableParameter (description="Mask value for unreliable telemetry parameter", quantity="rad")
LongParameter	maskNotChoppedToSky (description="Mask value for channel not chopped to sky", quantity="rad")
LongParameter	maskGlitchL2Detected (description="Mask value for second level glitch detected", quantity="rad")
LongParameter	maskGlitchL2NotRemoved (description="Mask value for second level glitch detected and not removed", quantity="rad")
LongParameter	maskTsignalHdv (description="Mask value for thermistor/DP signal deviations are larger than expected", quantity="rad")
LongParameter	maskBsmChopOol (description="Mask value for sample falls outside BSM chop soft limits", quantity="rad")
LongParameter	maskBsmJiggOol (description="Mask value for sample falls outside BSM Jiggle soft limits", quantity="rad")

LongParameter	maskJumpThermistorsDarksSignal (description="Mask value for signal jump in the thermistor/dark timeline", quantity="rad")
LongParameter	maskNoThermistorAvailable (description="Mask value for all the available thermistors are affected by either saturation or signal jump", quantity="rad")
LongParameter	maskNonNominalVelocity (description="Mask value for sample is not part of the nominal science scans of a scan map", quantity="rad")
LongParameter	maskNoDarkChannelAvailable (description="Mask value for all available dark channels in the array are affected by either saturation or signal jump", quantity="rad")
LongParameter	maskSerendipity (description="Mask value for sample belongs to serendipity mode", quantity="rad")
LongParameter	maskTurnaround (description="Mask value for sample belongs to a turnaround section of a scan map", quantity="rad")
DoubleParameter	ratioSpecSecondLevelGlitchIdentificationProblemsSSW (description="Maximum ratio of number of data samples where there were not enough valid scans to perform statistical outlier detection over the total number of data samples in the detectors of the SSW array", quantity="rad")
DoubleParameter	ratioSpecSecondLevelGlitchIdentificationProblemsSLW (description="Maximum ratio of number of data samples where there were not enough valid scans to perform statistical outlier detection over the total number of data samples in the detectors of the SLW array", quantity="rad")
LongParameter	numberSecondLevelGlitchCorrectionProblemsSSW (description="Maximum number of cases where a data sample from a SSW detector that was flagged as a glitch was not corrected", quantity="rad")
LongParameter	numberSecondLevelGlitchCorrectionProblemsSLW (description="Maximum number of cases where a data sample from a SLW detector that was flagged as a glitch was not corrected", quantity="rad")
LongParameter	phaseWrapSLW (description="Maximum number of times that in-band phase changes by +/-2pi in any of the SLW detectors", quantity="rad")
LongParameter	phaseWrapSSW (description="Maximum number of times that in-band phase changes by +/-2pi in any of the SSW detectors", quantity="rad")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="rad")
StringParameter	fileName (description="null", quantity="rad")
StringParameter	arrayName (description="Name of bolometer array", quantity="rad")
LongParameter	photObsid000 (description="SPIRE photometer map obsid that overlaps with this observation - 000", quantity="rad")
LongParameter	photObsid001 (description="SPIRE photometer map obsid that overlaps with this observation - 001", quantity="rad")
Columns	
table dataset	(name="spectrum2d", description="null")
Metadata	
LongParameter	channels (description="Number of channels")
StringParameter	wavedescription (description="Description of WaveColumn")
QuantifiableParameter	waveunit (description="Units of the WaveColumn")
Columns	
Double2d	wave (description="Frequency", quantity="GHz")
Double2d	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
Double2d	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")

<i>Double1d</i>	longitude (description="Actual Right Ascension of pointing for this channel", quantity="deg")
<i>Double1d</i>	latitude (description="Actual Declination of pointing for this channel", quantity="deg")
<i>Int2d</i>	mask (description="Mask", quantity="1")
<i>Int2d</i>	numScans (description="Number Of Scans", quantity="1")
<i>String1d</i>	detector (description="null", quantity="none")
<i>Double1d</i>	resolution (description="null", quantity="none")
<i>Long1d</i>	jiggId (description="null", quantity="none")
<i>Long1d</i>	pointNum (description="null", quantity="none")
<i>Long1d</i>	numFft (description="null", quantity="none")
<i>Long1d</i>	numFftFull (description="null", quantity="none")
<i>Double1d</i>	nyquist (description="null", quantity="none")
<i>Double1d</i>	maxOpd (description="null", quantity="none")
<i>Double1d</i>	minOpd (description="null", quantity="none")
<i>Double1d</i>	deltaOpd (description="null", quantity="none")

5.4.32. SPIRE Product Level 2 - Spectral Simple Cube

<i>product (type="SSC", description="Spectral Simple Cube")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	telescope (description="Name of telescope")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")

StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	jiggId (description="Jiggle ID")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	commandedResolution (description="Commanded Spectral Resolution")
DoubleParameter	biasFreq (description="Bias frequency", quantity="Hz")
StringParameter	elecSide (description="Electronic side", quantity="Hz")
StringParameter	missionConfig (description="Mission configuration", quantity="Hz")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	raDecOffset (description="The offset between the commanded position and the actual reconstructed pointing, which includes any systematic BSM offset (bsmOffset), but not the APE", quantity="arcsec")
DoubleParameter	bsmOffset (description="BSM offset position (0.0 or 1.7 arcsec), which is corrected for by the point-source calibration. This systematic offset is included in the raDecOffset value", quantity="arcsec")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="GHz")
StringParameter	origin (description="Site that created the product", quantity="GHz")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="GHz")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in the engineering conversion", quantity="GHz")
StringParameter	calVersion (description="Calibration version", quantity="GHz")

StringParameter	level (description="The level of the product", quantity="GHz")
StringParameter	processResolution (description="The resolution used to process the data", quantity="GHz")
LongParameter	numScans (description="Number of Scans", quantity="GHz")
StringParameter	bbTypeName (description="Building block type name", quantity="GHz")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="GHz")
StringParameter	apodType (description="Type of Apodization applied", quantity="GHz")
StringParameter	apodName (description="Name of Apodization function applied", quantity="GHz")
DoubleParameter	telescopeTempM2 (description="Telescope temperature M2 (in K)", quantity="K")
BooleanParameter	phaseCorrApplied (description="Phase correction has been applied", quantity="K")
StringParameter	signalTable (description="Name of the signal table", quantity="K")
LongParameter	maskDead (description="Mask value for dead channel", quantity="K")
LongParameter	maskMaster (description="Mask value for master bit", quantity="K")
LongParameter	maskNoisy (description="Mask value for noisy channel", quantity="K")
LongParameter	maskSlow (description="Mask value for slow channel", quantity="K")
BooleanParameter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="K")
LongParameter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="K")
LongParameter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="K")
LongParameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="K")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="K")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="K")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
DoubleParameter	slwBiasAmpl (description="SLW bias amplitude", quantity="V")
DoubleParameter	sswBiasAmpl (description="SSW bias amplitude", quantity="V")
DoubleParameter	slwBiasPhase (description="SLW bias phase", quantity="rad")
DoubleParameter	sswBiasPhase (description="SSW bias phase", quantity="rad")
BooleanParameter	rcRollApp (description="RC roll correction applied", quantity="rad")
LongParameter	maskGlitchL1Detected (description="Mask value for first level glitch detected", quantity="rad")
LongParameter	maskGlitchL1NotRemoved (description="Mask value for first level glitch detected and not removed", quantity="rad")

LongParameter	numberBelowK3VoltageSSW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="rad")
DoubleParameter	ratioSamplesOutOfCalibrationRangeSLW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="rad")
LongParameter	numberBelowK3VoltageSLW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="rad")
LongParameter	maskVoltageOol (description="Mask value for voltage out of fitted range", quantity="rad")
LongParameter	maskVoltageBelowK3 (description="Mask value for voltage below K3", quantity="rad")
LongParameter	maskNoRespData (description="Mask value for voltage out of fitted range and/or below K3", quantity="rad")
BooleanParameter	SpecNonLinearityCorrectionDone (description="Non-linearity correction has been applied", quantity="rad")
DateParameter	respControlStamp (description="Control Stamp used to ensure synchronization of Flux Conversion and Temperature Drift correction tasks", quantity="rad")
LongParameter	numberClippedDetectorsSLW (description="Maximum number of detectors in SLW where at least one sample was flagged as clipped and could not be corrected", quantity="rad")
LongParameter	numberClippedDetectorsSSW (description="Maximum number of detectors in SSW where at least one sample was flagged as clipped and could not be corrected", quantity="rad")
LongParameter	missedFringes (description="Maximum number of missed optical encoder fringes", quantity="rad")
LongParameter	smecOpenLoopCount (description="Number of housekeeping entries which indicate that the SMEC is not in closed loop", quantity="rad")
LongParameter	wrongBaselineSSW (description="Maximum number of detectors in SSW where the removed baseline is not a good approximation of the actual baseline in the interferogram", quantity="rad")
LongParameter	wrongBaselineSLW (description="Maximum number of detectors in SLW where the removed baseline is not a good approximation of the actual baseline in the interferogram", quantity="rad")
LongParameter	maskGlitchDetected (description="Mask value for glitch detected", quantity="rad")
LongParameter	maskGlitchNotRemoved (description="Mask value for glitch detected and not removed", quantity="rad")
LongParameter	maskUnreliableParameter (description="Mask value for unreliable telemetry parameter", quantity="rad")
LongParameter	maskNotChoppedToSky (description="Mask value for channel not chopped to sky", quantity="rad")
LongParameter	maskGlitchL2Detected (description="Mask value for second level glitch detected", quantity="rad")
LongParameter	maskGlitchL2NotRemoved (description="Mask value for second level glitch detected and not removed", quantity="rad")
LongParameter	maskTsignalHdv (description="Mask value for thermistor/DP signal deviations are larger than expected", quantity="rad")

LongParameter	maskBsmChopOol (description="Mask value for sample falls outside BSM chop soft limits", quantity="rad")
LongParameter	maskBsmJiggOol (description="Mask value for sample falls outside BSM Jiggle soft limits", quantity="rad")
LongParameter	maskJumpThermistorsDarkSignal (description="Mask value for signal jump in the thermistor/dark timeline", quantity="rad")
LongParameter	maskNoThermistorAvailable (description="Mask value for all the available thermistors are affected by either saturation or signal jump", quantity="rad")
LongParameter	maskNonNominalVelocity (description="Mask value for sample is not part of the nominal science scans of a scan map", quantity="rad")
LongParameter	maskNoDarkChannelAvailable (description="Mask value for all available dark channels in the array are affected by either saturation or signal jump", quantity="rad")
LongParameter	maskSerendipity (description="Mask value for sample belongs to serendipity mode", quantity="rad")
LongParameter	maskTurnaround (description="Mask value for sample belongs to a turnaround section of a scan map", quantity="rad")
DoubleParameter	ratioSpecSecondLevelGlitchIdentificationProblemsSSW (description="Maximum ratio of number of data samples where there were not enough valid scans to perform statistical outlier detection over the total number of data samples in the detectors of the SSW array", quantity="rad")
DoubleParameter	ratioSpecSecondLevelGlitchIdentificationProblemsSLW (description="Maximum ratio of number of data samples where there were not enough valid scans to perform statistical outlier detection over the total number of data samples in the detectors of the SLW array", quantity="rad")
LongParameter	numberSecondLevelGlitchCorrectionProblemsSSW (description="Maximum number of cases where a data sample from a SSW detector that was flagged as a glitch was not corrected", quantity="rad")
LongParameter	numberSecondLevelGlitchCorrectionProblemsSLW (description="Maximum number of cases where a data sample from a SLW detector that was flagged as a glitch was not corrected", quantity="rad")
LongParameter	phaseWrapSLW (description="Maximum number of times that in-band phase changes by +/-2pi in any of the SLW detectors", quantity="rad")
LongParameter	phaseWrapSSW (description="Maximum number of times that in-band phase changes by +/-2pi in any of the SSW detectors", quantity="rad")
DoubleParameter	deltaSCal2Temp (description="SCal2 maximum temperature variation (in K)", quantity="K")
DoubleParameter	deltaSCal4Temp (description="SCal4 maximum temperature variation (in K)", quantity="K")
DoubleParameter	deltaM2Temp (description="Maximum temperature variation of the telescope 2 temperature (in K)", quantity="K")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="K")
StringParameter	fileName (description="null", quantity="K")
StringParameter	arrayName (description="Name of bolometer array", quantity="K")
LongParameter	photObsid000 (description="SPIRE photometer map obsid that overlaps with this observation - 000", quantity="K")
LongParameter	photObsid001 (description="SPIRE photometer map obsid that overlaps with this observation - 001", quantity="K")

LongParameter	photObsid002 (description="SPIRE photometer map obsid that overlaps with this observation - 002", quantity="K")
LongParameter	photObsid003 (description="SPIRE photometer map obsid that overlaps with this observation - 003", quantity="K")
LongParameter	photObsid004 (description="SPIRE photometer map obsid that overlaps with this observation - 004", quantity="K")
Columns	
array dataset	(description="Brightness")
Metadata	
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
StringParameter	cunit3 (description="WCS: Unit axis 3, default="")
StringParameter	radesys (description="WCS: Reference frame, default="ICRS")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crval3 (description="WCS: Wavelength, time, ... of reference layer; unit=length,time,...")
DoubleParameter	crpix3 (description="WCS: Reference layer index, unit=Scalar")
DoubleParameter	cdelt3 (description="WCS: Scale in 3rd dimension, unit=Length, Duration, ...")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represents")
Columns	
Double3d	(description="Brightness", quantity="W m-2 Hz-1 sr-1")

5.4.33. SPIRE Product Level 2 - Spire Preprocessed Cube

<i>product (type="SPC", description="Spire Preprocessed Cube")</i>	
Metadata	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")

StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	jiggId (description="Jiggle ID")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	commandedResolution (description="Commanded Spectral Resolution")
DoubleParameter	biasFreq (description="Bias frequency", quantity="Hz")
StringParameter	elecSide (description="Electronic side", quantity="Hz")
StringParameter	modelName (description="Model name attached to this product", quantity="Hz")
StringParameter	formatVersion (description="Version of product format", quantity="Hz")
StringParameter	missionConfig (description="Mission configuration", quantity="Hz")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	raDecOffset (description="The offset between the commanded position and the actual reconstructed pointing, which includes any systematic BSM offset (bsmOffset), but not the APE", quantity="arcsec")
DoubleParameter	bsmOffset (description="BSM offset position (0.0 or 1.7 arcsec), which is corrected for by the point-source calibration. This systematic offset is included in the raDecOffset value", quantity="arcsec")

DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
StringParameter	origin (description="Site that created the product", quantity="GHz")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="GHz")
StringParameter	type (description="Product Type Identification", quantity="GHz")
StringParameter	description (description="Name of this product", quantity="GHz")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in the engineering conversion", quantity="GHz")
StringParameter	calVersion (description="Calibration version", quantity="GHz")
StringParameter	level (description="The level of the product", quantity="GHz")
StringParameter	processResolution (description="The resolution used to process the data", quantity="GHz")
LongParameter	numScans (description="Number of Scans", quantity="GHz")
StringParameter	bbTypeName (description="Building block type name", quantity="GHz")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="GHz")
StringParameter	apodType (description="Type of Apodization applied", quantity="GHz")
StringParameter	apodName (description="Name of Apodization function applied", quantity="GHz")
DoubleParameter	telescopeTempM2 (description="Telescope temperature M2 (in K)", quantity="K")
BooleanParameter	phaseCorrApplied (description="Phase correction has been applied", quantity="K")
StringParameter	signalTable (description="Name of the signal table", quantity="K")
LongParameter	maskDead (description="Mask value for dead channel", quantity="K")
LongParameter	maskMaster (description="Mask value for master bit", quantity="K")
LongParameter	maskNoisy (description="Mask value for noisy channel", quantity="K")
LongParameter	maskSlow (description="Mask value for slow channel", quantity="K")
BooleanParameter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="K")
LongParameter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="K")
LongParameter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="K")
LongParameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="K")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="K")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="K")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")

DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
DoubleParameter	slwBiasAmpl (description="SLW bias amplitude", quantity="V")
DoubleParameter	sswBiasAmpl (description="SSW bias amplitude", quantity="V")
DoubleParameter	slwBiasPhase (description="SLW bias phase", quantity="rad")
DoubleParameter	sswBiasPhase (description="SSW bias phase", quantity="rad")
BooleanParameter	rcRollApp (description="RC roll correction applied", quantity="rad")
LongParameter	maskGlitchL1Detected (description="Mask value for first level glitch detected", quantity="rad")
LongParameter	maskGlitchL1NotRemoved (description="Mask value for first level glitch detected and not removed", quantity="rad")
LongParameter	numberBelowK3VoltageSSW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="rad")
DoubleParameter	ratioSamplesOutOfCalibrationRangeSLW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="rad")
LongParameter	numberBelowK3VoltageSLW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="rad")
LongParameter	maskVoltageOol (description="Mask value for voltage out of fitted range", quantity="rad")
LongParameter	maskVoltageBelowK3 (description="Mask value for voltage below K3", quantity="rad")
LongParameter	maskNoRespData (description="Mask value for voltage out of fitted range and/or below K3", quantity="rad")
BooleanParameter	SpecNonLinearityCorrectionDone (description="Non-linearity correction has been applied", quantity="rad")
DateParameter	respControlStamp (description="Control Stamp used to ensure synchronization of Flux Conversion and Temperature Drift correction tasks", quantity="rad")
LongParameter	numberClippedDetectorsSLW (description="Maximum number of detectors in SLW where at least one sample was flagged as clipped and could not be corrected", quantity="rad")
LongParameter	numberClippedDetectorsSSW (description="Maximum number of detectors in SSW where at least one sample was flagged as clipped and could not be corrected", quantity="rad")
LongParameter	missedFringes (description="Maximum number of missed optical encoder fringes", quantity="rad")
LongParameter	smecOpenLoopCount (description="Number of housekeeping entries which indicate that the SMEC is not in closed loop", quantity="rad")
LongParameter	wrongBaselineSSW (description="Maximum number of detectors in SSW where the removed baseline is not a good approximation of the actual baseline in the interferogram", quantity="rad")
LongParameter	wrongBaselineSLW (description="Maximum number of detectors in SLW where the removed baseline is not a good approximation of the actual baseline in the interferogram", quantity="rad")

LongParameter	maskGlitchDetected (description="Mask value for glitch detected", quantity="rad")
LongParameter	maskGlitchNotRemoved (description="Mask value for glitch detected and not removed", quantity="rad")
LongParameter	maskUnreliableParameter (description="Mask value for unreliable telemetry parameter", quantity="rad")
LongParameter	maskNotChoppedToSky (description="Mask value for channel not chopped to sky", quantity="rad")
LongParameter	maskGlitchL2Detected (description="Mask value for second level glitch detected", quantity="rad")
LongParameter	maskGlitchL2NotRemoved (description="Mask value for second level glitch detected and not removed", quantity="rad")
LongParameter	maskTsignalHdv (description="Mask value for thermistor/DP signal deviations are larger than expected", quantity="rad")
LongParameter	maskBsmChopOol (description="Mask value for sample falls outside BSM chop soft limits", quantity="rad")
LongParameter	maskBsmJiggOol (description="Mask value for sample falls outside BSM Jiggle soft limits", quantity="rad")
LongParameter	maskJumpThermistorsDarksSignal (description="Mask value for signal jump in the thermistor/dark timeline", quantity="rad")
LongParameter	maskNoThermistorAvailable (description="Mask value for all the available thermistors are affected by either saturation or signal jump", quantity="rad")
LongParameter	maskNonNominalVelocity (description="Mask value for sample is not part of the nominal science scans of a scan map", quantity="rad")
LongParameter	maskNoDarkChannelAvailable (description="Mask value for all available dark channels in the array are affected by either saturation or signal jump", quantity="rad")
LongParameter	maskSerendipity (description="Mask value for sample belongs to serendipity mode", quantity="rad")
LongParameter	maskTurnaround (description="Mask value for sample belongs to a turnaround section of a scan map", quantity="rad")
DoubleParameter	ratioSpecSecondLevelGlitchIdentificationProblemsSSW (description="Maximum ratio of number of data samples where there were not enough valid scans to perform statistical outlier detection over the total number of data samples in the detectors of the SSW array", quantity="rad")
DoubleParameter	ratioSpecSecondLevelGlitchIdentificationProblemsSLW (description="Maximum ratio of number of data samples where there were not enough valid scans to perform statistical outlier detection over the total number of data samples in the detectors of the SLW array", quantity="rad")
LongParameter	numberSecondLevelGlitchCorrectionProblemsSSW (description="Maximum number of cases where a data sample from a SSW detector that was flagged as a glitch was not corrected", quantity="rad")
LongParameter	numberSecondLevelGlitchCorrectionProblemsSLW (description="Maximum number of cases where a data sample from a SLW detector that was flagged as a glitch was not corrected", quantity="rad")
LongParameter	phaseWrapSLW (description="Maximum number of times that in-band phase changes by +/-2pi in any of the SLW detectors", quantity="rad")
LongParameter	phaseWrapSSW (description="Maximum number of times that in-band phase changes by +/-2pi in any of the SSW detectors", quantity="rad")

DoubleParameter	deltaSCal2Temp (description="SCal2 maximum temperature variation (in K)", quantity="K")
DoubleParameter	deltaSCal4Temp (description="SCal4 maximum temperature variation (in K)", quantity="K")
DoubleParameter	deltaM2Temp (description="Maximum temperature variation of the telescope 2 temperature (in K)", quantity="K")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="K")
StringParameter	fileName (description="null", quantity="K")
StringParameter	arrayName (description="Name of bolometer array", quantity="K")
LongParameter	photObsid000 (description="SPIRE photometer map obsid that overlaps with this observation - 000", quantity="K")
LongParameter	photObsid001 (description="SPIRE photometer map obsid that overlaps with this observation - 001", quantity="K")
LongParameter	photObsid002 (description="SPIRE photometer map obsid that overlaps with this observation - 002", quantity="K")
LongParameter	photObsid003 (description="SPIRE photometer map obsid that overlaps with this observation - 003", quantity="K")
LongParameter	photObsid004 (description="SPIRE photometer map obsid that overlaps with this observation - 004", quantity="K")
<i>Columns</i>	
<i>table dataset</i>	(name="spectrum2d", description="null")
<i>Metadata</i>	
LongParameter	channels (description="Number of channels")
StringParameter	wavedescription (description="Description of WaveColumn")
QuantifiableParameter	waveunit (description="Units of the WaveColumn")
<i>Columns</i>	
<i>Double2d</i>	wave (description="Frequency", quantity="GHz")
<i>Double2d</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>Double2d</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>Double1d</i>	longitude (description="Actual Right Ascension of pointing for this channel", quantity="deg")
<i>Double1d</i>	latitude (description="Actual Declination of pointing for this channel", quantity="deg")
<i>Int2d</i>	mask (description="Mask", quantity="1")
<i>Int2d</i>	numScans (description="Number Of Scans", quantity="1")
<i>String1d</i>	detector (description="null", quantity="none")
<i>Double1d</i>	resolution (description="null", quantity="none")
<i>Long1d</i>	jiggId (description="null", quantity="none")
<i>Long1d</i>	pointNum (description="null", quantity="none")
<i>Long1d</i>	numFft (description="null", quantity="none")
<i>Long1d</i>	numFftFull (description="null", quantity="none")
<i>Double1d</i>	nyquist (description="null", quantity="none")
<i>Double1d</i>	maxOpd (description="null", quantity="none")
<i>Double1d</i>	minOpd (description="null", quantity="none")
<i>Double1d</i>	deltaOpd (description="null", quantity="none")

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5.4.34. SPIRE Product Level 2 - Final corrected map

<i>product (type="PXMP", description="Final corrected map")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	telescope (description="Name of telescope")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
StringParameter	origin (description="Site that created the product", quantity="arcsec a-1")
StringParameter	calVersion (description="Calibration version", quantity="arcsec a-1")
StringParameter	level (description="The level of the product", quantity="arcsec a-1")

StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="arcsec a-1")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar", quantity="arcsec a-1")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar", quantity="arcsec a-1")
StringParameter	arrayName (description="Name of bolometer array", quantity="arcsec a-1")
StringParameter	unit (description="Unit of the signal", quantity="arcsec a-1")
DoubleParameter	ratioInvalidSamplesInTimeline (description="Fraction of NaN or infinite samples", quantity="arcsec a-1")
DoubleParameter	ratioInvalidCoordsInTimeline (description="Fraction of NaN or infinite coordinates", quantity="arcsec a-1")
LongParameter	nDataSamples (description="Number of data samples propagated in the creation of this Tod", quantity="arcsec a-1")
LongParameter	firstSample (description="null", quantity="arcsec a-1")
LongParameter	lastSample (description="null", quantity="arcsec a-1")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel", quantity="arcsec a-1")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel", quantity="arcsec a-1")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle", quantity="arcsec a-1")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle", quantity="arcsec a-1")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR"", quantity="arcsec a-1")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR"", quantity="arcsec a-1")
DoubleParameter	crota2 (description="The Rotation angle", quantity="arcsec a-1")
LongParameter	naxis1 (description="null", quantity="arcsec a-1")
LongParameter	naxis2 (description="null", quantity="arcsec a-1")
DoubleParameter	wavelength (description="The reference wavelength at which the image is taken", quantity="micrometer")
StringParameter	hfi545 (description="HFI 545 GHz file used", quantity="micrometer")
StringParameter	hfi857 (description="HFI 857 GHz file used", quantity="micrometer")
StringParameter	hfiColor (description="HFI-SPIRE colour correction version used", quantity="micrometer")
DoubleParameter	zPointOffset (description="Offset added to SPIRE image as obtained from cross-calibration with Planck", quantity="MJy sr-1")
DoubleParameter	zPointStDev (description="Standard deviation of difference map between HFI and SPIRE maps as obtained from cross-calibration with Planck", quantity="MJy sr-1")
<i>Columns</i>	
<i>array dataset</i>	(description="Image")
<i>Metadata</i>	
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")

DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
DoubleParameter	equinox (description="WCS: Equinox, unit=Duration")
DoubleParameter	crota2 (description="The Rotation angle")
<i>Columns</i>	
<i>Double2d</i>	(description="Image", quantity="MJy/sr")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="error", description="Statistical error on the pixel values")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="coverage", description="Coverage")

5.4.35. SPIRE Product Level 2 - PLW map

<i>product (type="PMP", description="PLW map")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	telescope (description="Name of telescope")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")

StringParameter	pointingMode (description="Pointing mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
StringParameter	origin (description="Site that created the product", quantity="arcsec a-1")
StringParameter	calVersion (description="Calibration version", quantity="arcsec a-1")
StringParameter	level (description="The level of the product", quantity="arcsec a-1")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="arcsec a-1")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar", quantity="arcsec a-1")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar", quantity="arcsec a-1")
StringParameter	arrayName (description="Name of bolometer array", quantity="arcsec a-1")
StringParameter	unit (description="null", quantity="arcsec a-1")
DoubleParameter	ratioInvalidSamplesInTimeline (description="Fraction of NaN or infinite samples", quantity="arcsec a-1")
DoubleParameter	ratioInvalidCoordsInTimeline (description="Fraction of NaN or infinite coordinates", quantity="arcsec a-1")
LongParameter	nDataSamples (description="Number of data samples propagated in the creation of this Tod", quantity="arcsec a-1")
LongParameter	firstSample (description="null", quantity="arcsec a-1")
LongParameter	lastSample (description="null", quantity="arcsec a-1")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel", quantity="arcsec a-1")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel", quantity="arcsec a-1")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle", quantity="arcsec a-1")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle", quantity="arcsec a-1")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR"", quantity="arcsec a-1")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR"", quantity="arcsec a-1")
DoubleParameter	crota2 (description="The Rotation angle", quantity="arcsec a-1")

LongParameter	naxis1 (description="null", quantity="arcsec a-1")
LongParameter	naxis2 (description="null", quantity="arcsec a-1")
DoubleParameter	wavelength (description="The reference wavelength at which the image is taken", quantity="micrometer")
Columns	
array dataset	(description="Image")
Metadata	
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
DoubleParameter	equinox (description="WCS: Equinox, unit=Duration")
DoubleParameter	crota2 (description="The Rotation angle")
Columns	
Double2d	(description="Image", quantity="Jy/beam")
	()
array dataset	Dataset similar to the one above with (name="error", description="Statistical error on the pixel values")
	()
array dataset	Dataset similar to the one above with (name="coverage", description="Coverage")

5.4.36. SPIRE Product Level 2 - PMW map

<i>product (type="PMP", description="PMW map")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	telescope (description="Name of telescope")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")

StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
StringParameter	origin (description="Site that created the product", quantity="arcsec a-1")
StringParameter	calVersion (description="Calibration version", quantity="arcsec a-1")
StringParameter	level (description="The level of the product", quantity="arcsec a-1")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="arcsec a-1")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar", quantity="arcsec a-1")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar", quantity="arcsec a-1")
StringParameter	arrayName (description="Name of bolometer array", quantity="arcsec a-1")
StringParameter	unit (description="null", quantity="arcsec a-1")
DoubleParameter	ratioInvalidSamplesInTimeline (description="Fraction of NaN or infinite samples", quantity="arcsec a-1")
DoubleParameter	ratioInvalidCoordsInTimeline (description="Fraction of NaN or infinite coordinates", quantity="arcsec a-1")
LongParameter	nDataSamples (description="Number of data samples propagated in the creation of this Tod", quantity="arcsec a-1")
LongParameter	firstSample (description="null", quantity="arcsec a-1")
LongParameter	lastSample (description="null", quantity="arcsec a-1")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel", quantity="arcsec a-1")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel", quantity="arcsec a-1")

DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle", quantity="arcsec a-1")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle", quantity="arcsec a-1")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR"", quantity="arcsec a-1")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR"", quantity="arcsec a-1")
DoubleParameter	crota2 (description="The Rotation angle", quantity="arcsec a-1")
LongParameter	naxis1 (description="null", quantity="arcsec a-1")
LongParameter	naxis2 (description="null", quantity="arcsec a-1")
DoubleParameter	wavelength (description="The reference wavelength at which the image is taken", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="Image")
<i>Metadata</i>	
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR"")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR"")
DoubleParameter	equinox (description="WCS: Equinox, unit=Duration")
DoubleParameter	crota2 (description="The Rotation angle")
<i>Columns</i>	
<i>Double2d</i>	(description="Image", quantity="Jy/beam")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="error", description="Statistical error on the pixel values")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="coverage", description="Coverage")

5.4.37. SPIRE Product Level 2 - PSW map

<i>product (type="PMP", description="PSW map")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")

StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	telescope (description="Name of telescope")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
StringParameter	origin (description="Site that created the product", quantity="arcsec a-1")
StringParameter	calVersion (description="Calibration version", quantity="arcsec a-1")
StringParameter	level (description="The level of the product", quantity="arcsec a-1")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="arcsec a-1")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar", quantity="arcsec a-1")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar", quantity="arcsec a-1")
StringParameter	arrayName (description="Name of bolometer array", quantity="arcsec a-1")
StringParameter	unit (description="null", quantity="arcsec a-1")
DoubleParameter	ratioInvalidSamplesInTimeline (description="Fraction of NaN or infinite samples", quantity="arcsec a-1")

DoubleParameter	ratioInvalidCoordsInTimeline (description="Fraction of NaN or infinite coordinates", quantity="arcsec a-1")
LongParameter	nDataSamples (description="Number of data samples propogated in the creation of this Tod", quantity="arcsec a-1")
LongParameter	firstSample (description="null", quantity="arcsec a-1")
LongParameter	lastSample (description="null", quantity="arcsec a-1")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel", quantity="arcsec a-1")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel", quantity="arcsec a-1")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle", quantity="arcsec a-1")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle", quantity="arcsec a-1")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR"", quantity="arcsec a-1")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR"", quantity="arcsec a-1")
DoubleParameter	crota2 (description="The Rotation angle", quantity="arcsec a-1")
LongParameter	naxis1 (description="null", quantity="arcsec a-1")
LongParameter	naxis2 (description="null", quantity="arcsec a-1")
DoubleParameter	wavelength (description="The reference wavelength at which the image is taken", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="Image")
<i>Metadata</i>	
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR"")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR"")
DoubleParameter	equinox (description="WCS: Equinox, unit=Duration")
DoubleParameter	crota2 (description="The Rotation angle")
<i>Columns</i>	
<i>Double2d</i>	(description="Image", quantity="Jy/beam")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="error", description="Statistical error on the pixel values")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="coverage", description="Coverage")

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5.4.38. SPIRE Product Level 2 - PLW map

<i>product (type="ssoPMP", description="PLW map")</i>	
<i>Metadata</i>	
StringParameter	type (description="null")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	telescope (description="Name of telescope")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
StringParameter	origin (description="Site that created the product", quantity="arcsec a-1")
StringParameter	calVersion (description="Calibration version", quantity="arcsec a-1")
StringParameter	level (description="The level of the product", quantity="arcsec a-1")

StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="arcsec a-1")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar", quantity="arcsec a-1")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar", quantity="arcsec a-1")
StringParameter	arrayName (description="Name of bolometer array", quantity="arcsec a-1")
StringParameter	unit (description="null", quantity="arcsec a-1")
DoubleParameter	ratioInvalidSamplesInTimeline (description="Fraction of NaN or infinite samples", quantity="arcsec a-1")
DoubleParameter	ratioInvalidCoordsInTimeline (description="Fraction of NaN or infinite coordinates", quantity="arcsec a-1")
LongParameter	nDataSamples (description="Number of data samples propogated in the creation of this Tod", quantity="arcsec a-1")
LongParameter	firstSample (description="null", quantity="arcsec a-1")
LongParameter	lastSample (description="null", quantity="arcsec a-1")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel", quantity="arcsec a-1")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel", quantity="arcsec a-1")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle", quantity="arcsec a-1")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle", quantity="arcsec a-1")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR"", quantity="arcsec a-1")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR"", quantity="arcsec a-1")
DoubleParameter	crota2 (description="The Rotation angle", quantity="arcsec a-1")
LongParameter	naxis1 (description="null", quantity="arcsec a-1")
LongParameter	naxis2 (description="null", quantity="arcsec a-1")
DoubleParameter	wavelength (description="The reference wavelength at which the image is taken", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(<i>description="Image"</i>)
<i>Metadata</i>	
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR"")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR"")
DoubleParameter	equinox (description="WCS: Equinox, unit=Duration")

DoubleParameter	crota2 (description="The Rotation angle")
<i>Columns</i>	
<i>Double2d</i>	(description="Image", quantity="Jy/beam")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="error", description="Statistical error on the pixel values")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="coverage", description="Coverage")

5.4.39. SPIRE Product Level 2 - PMW map

<i>product (type="ssoPMP", description="PMW map")</i>	
<i>Metadata</i>	
StringParameter	type (description="null")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	telescope (description="Name of telescope")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")

DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
StringParameter	origin (description="Site that created the product", quantity="arcsec a-1")
StringParameter	calVersion (description="Calibration version", quantity="arcsec a-1")
StringParameter	level (description="The level of the product", quantity="arcsec a-1")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="arcsec a-1")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar", quantity="arcsec a-1")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar", quantity="arcsec a-1")
StringParameter	arrayName (description="Name of bolometer array", quantity="arcsec a-1")
StringParameter	unit (description="null", quantity="arcsec a-1")
DoubleParameter	ratioInvalidSamplesInTimeline (description="Fraction of NaN or infinite samples", quantity="arcsec a-1")
DoubleParameter	ratioInvalidCoordsInTimeline (description="Fraction of NaN or infinite coordinates", quantity="arcsec a-1")
LongParameter	nDataSamples (description="Number of data samples propogated in the creation of this Tod", quantity="arcsec a-1")
LongParameter	firstSample (description="null", quantity="arcsec a-1")
LongParameter	lastSample (description="null", quantity="arcsec a-1")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel", quantity="arcsec a-1")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel", quantity="arcsec a-1")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle", quantity="arcsec a-1")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle", quantity="arcsec a-1")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR"", quantity="arcsec a-1")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR"", quantity="arcsec a-1")
DoubleParameter	crota2 (description="The Rotation angle", quantity="arcsec a-1")
LongParameter	naxis1 (description="null", quantity="arcsec a-1")
LongParameter	naxis2 (description="null", quantity="arcsec a-1")
DoubleParameter	wavelength (description="The reference wavelength at which the image is taken", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(<i>description="Image"</i>)
<i>Metadata</i>	

DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
DoubleParameter	equinox (description="WCS: Equinox, unit=Duration")
DoubleParameter	crota2 (description="The Rotation angle")
<i>Columns</i>	
<i>Double2d</i>	(description="Image", quantity="Jy/beam")
()	
<i>array dataset</i>	Dataset similar to the one above with (name="error", description="Statistical error on the pixel values")
()	
<i>array dataset</i>	Dataset similar to the one above with (name="coverage", description="Coverage")

5.4.40. SPIRE Product Level 2 - PSW map

<i>product (type="ssoPMP", description="PSW map")</i>	
<i>Metadata</i>	
StringParameter	type (description="null")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	telescope (description="Name of telescope")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")

StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
StringParameter	origin (description="Site that created the product", quantity="arcsec a-1")
StringParameter	calVersion (description="Calibration version", quantity="arcsec a-1")
StringParameter	level (description="The level of the product", quantity="arcsec a-1")
StringParameter	scanDirection (description="nominal, orthogonal or scanab", quantity="arcsec a-1")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar", quantity="arcsec a-1")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar", quantity="arcsec a-1")
StringParameter	arrayName (description="Name of bolometer array", quantity="arcsec a-1")
StringParameter	unit (description="null", quantity="arcsec a-1")
DoubleParameter	ratioInvalidSamplesInTimeline (description="Fraction of NaN or infinite samples", quantity="arcsec a-1")
DoubleParameter	ratioInvalidCoordsInTimeline (description="Fraction of NaN or infinite coordinates", quantity="arcsec a-1")
LongParameter	nDataSamples (description="Number of data samples propogated in the creation of this Tod", quantity="arcsec a-1")
LongParameter	firstSample (description="null", quantity="arcsec a-1")
LongParameter	lastSample (description="null", quantity="arcsec a-1")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel", quantity="arcsec a-1")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel", quantity="arcsec a-1")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle", quantity="arcsec a-1")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle", quantity="arcsec a-1")
StringParameter	cctype1 (description="WCS: Projection type axis 1, default="LINEAR", quantity="arcsec a-1")
StringParameter	cctype2 (description="WCS: Projection type axis 2, default="LINEAR", quantity="arcsec a-1")

DoubleParameter	crota2 (description="The Rotation angle", quantity="arcsec a-1")
LongParameter	naxis1 (description="null", quantity="arcsec a-1")
LongParameter	naxis2 (description="null", quantity="arcsec a-1")
DoubleParameter	wavelength (description="The reference wavelength at which the image is taken", quantity="micrometer")
<i>Columns</i>	
<i>array dataset</i>	(description="Image")
<i>Metadata</i>	
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
DoubleParameter	equinox (description="WCS: Equinox, unit=Duration")
DoubleParameter	crota2 (description="The Rotation angle")
<i>Columns</i>	
<i>Double2d</i>	(description="Image", quantity="Jy/beam")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="error", description="Statistical error on the pixel values")
	()
<i>array dataset</i>	Dataset similar to the one above with (name="coverage", description="Coverage")

5.4.41. SPIRE Product Level 2 - Spectral Simple Cube

<i>product (type="SSC", description="Spectral Simple Cube")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	telescope (description="Name of telescope")
StringParameter	subsystem (description="Instrument Subsystem")

StringParameter	source (description="TM source packet name")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	pointNum (description="Pointing number")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	commandedResolution (description="Commanded Spectral Resolution")
DoubleParameter	biasFreq (description="Bias frequency", quantity="Hz")
StringParameter	elecSide (description="Electronic side", quantity="Hz")
StringParameter	missionConfig (description="Mission configuration", quantity="Hz")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	raDecOffset (description="The offset between the commanded position and the actual reconstructed pointing, which includes any systematic BSM offset (bsmOffset), but not the APE.", quantity="arcsec")
DoubleParameter	bsmOffset (description="BSM offset position (0.0 or 1.7 arcsec), which is corrected for by the point-source calibration. This systematic offset is included in the raDecOffset value.", quantity="arcsec")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")

StringParameter	wavedescription (description="Description of WaveColumn", quantity="GHz")
StringParameter	origin (description="Site that created the product", quantity="GHz")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="GHz")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="GHz")
StringParameter	calVersion (description="Calibration version", quantity="GHz")
StringParameter	level (description="The level of the product", quantity="GHz")
StringParameter	processResolution (description="The resolution that is to be used or was used to process the data", quantity="GHz")
LongParameter	numScans (description="Number of Scans", quantity="GHz")
StringParameter	bbTypeName (description="Building block type name", quantity="GHz")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="GHz")
StringParameter	apodType (description="Type of Apodization applied", quantity="GHz")
StringParameter	apodName (description="Name of Apodization function applied", quantity="GHz")
DoubleParameter	telescopeTempM2 (description="Telescope temperature M2 (in K)", quantity="K")
BooleanParameter	phaseCorrApplied (description="Phase correction has been applied", quantity="K")
StringParameter	signalTable (description="Name of the signal table", quantity="K")
LongParameter	maskDead (description="Mask value for dead channel", quantity="K")
LongParameter	maskMaster (description="Mask value for master bit", quantity="K")
LongParameter	maskNoisy (description="Mask value for noisy channel", quantity="K")
LongParameter	maskSlow (description="Mask value for slow channel", quantity="K")
BooleanParameter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="K")
LongParameter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="K")
LongParameter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="K")
LongParameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="K")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="K")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="K")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
DoubleParameter	slwBiasAmpl (description="SLW bias amplitude", quantity="V")
DoubleParameter	sswBiasAmpl (description="SSW bias amplitude", quantity="V")

DoubleParameter	slwBiasPhase (description="SLW bias phase", quantity="rad")
DoubleParameter	sswBiasPhase (description="SSW bias phase", quantity="rad")
BooleanParameter	rcRollApp (description="RC roll correction applied", quantity="rad")
LongParameter	maskGlitchL1Detected (description="Mask value for first level glitch detected", quantity="rad")
LongParameter	maskGlitchL1NotRemoved (description="Mask value for first level glitch detected and not removed", quantity="rad")
LongParameter	numberBelowK3VoltageSSW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="rad")
DoubleParameter	ratioSamplesOutOfCalibrationRangeSLW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="rad")
LongParameter	numberBelowK3VoltageSLW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="rad")
LongParameter	maskVoltageOol (description="Mask value for voltage out of fitted range", quantity="rad")
LongParameter	maskVoltageBelowK3 (description="Mask value for voltage below K3", quantity="rad")
LongParameter	maskNoRespData (description="Mask value for voltage out of fitted range and/or below K3", quantity="rad")
BooleanParameter	SpecNonLinearityCorrectionDone (description="null", quantity="rad")
StringParameter	respControlStamp (description="null", quantity="rad")
LongParameter	numberClippedDetectorsSLW (description="Maximum number of detectors in SLW where at least one sample was flagged as clipped and could not be corrected", quantity="rad")
LongParameter	numberClippedDetectorsSSW (description="Maximum number of detectors in SSW where at least one sample was flagged as clipped and could not be corrected", quantity="rad")
LongParameter	missedFringes (description="Maximum number of missed optical encoder fringes", quantity="rad")
LongParameter	smecOpenLoopCount (description="Number of housekeeping entries which indicate that the SMEC is not in closed loop", quantity="rad")
LongParameter	wrongBaselineSSW (description="Maximum number of detectors in SSW where the removed baseline is not a good approximation of the actual baseline in the interferogram", quantity="rad")
LongParameter	wrongBaselineSLW (description="Maximum number of detectors in SLW where the removed baseline is not a good approximation of the actual baseline in the interferogram", quantity="rad")
LongParameter	maskGlitchDetected (description="Mask value for glitch detected", quantity="rad")
LongParameter	maskGlitchNotRemoved (description="Mask value for glitch detected and not removed", quantity="rad")
LongParameter	maskUnreliableParameter (description="Mask value for unreliable telemetry parameter", quantity="rad")
LongParameter	maskNotChoppedToSky (description="Mask value for channel not chopped to sky", quantity="rad")

LongParameter	maskGlitchL2Detected (description="Mask value for second level glitch detected", quantity="rad")
LongParameter	maskGlitchL2NotRemoved (description="Mask value for second level glitch detected and not removed", quantity="rad")
LongParameter	maskTsignalHdv (description="Mask value for thermistor/DP signal deviations are larger than expected", quantity="rad")
LongParameter	maskBsmChopOol (description="Mask value for sample falls outside BSM chop soft limits", quantity="rad")
LongParameter	maskBsmJiggOol (description="Mask value for sample falls outside BSM Jiggle soft limits", quantity="rad")
LongParameter	maskJumpThermistorsDarkSignal (description="Mask value for signal jump in the thermistor/dark timeline", quantity="rad")
LongParameter	maskNoThermistorAvailable (description="Mask value for all the available thermistors are affected by either saturation or signal jump", quantity="rad")
LongParameter	maskNonNominalVelocity (description="Mask value for sample is not part of the nominal science scans of a scan map", quantity="rad")
LongParameter	maskNoDarkChannelAvailable (description="Mask value for all available dark channels in the array are affected by either saturation or signal jump", quantity="rad")
LongParameter	maskSerendipity (description="Mask value for sample belongs to serendipity mode", quantity="rad")
LongParameter	maskTurnaround (description="Mask value for sample belongs to a turnaround section of a scan map", quantity="rad")
DoubleParameter	ratioSpecSecondLevelGlitchIdentificationProblemsSSW (description="Maximum ratio of number of data samples where there were not enough valid scans to perform statistical outlier detection over the total number of data samples in the detectors of the SSW array", quantity="rad")
DoubleParameter	ratioSpecSecondLevelGlitchIdentificationProblemsSLW (description="Maximum ratio of number of data samples where there were not enough valid scans to perform statistical outlier detection over the total number of data samples in the detectors of the SLW array", quantity="rad")
LongParameter	numberSecondLevelGlitchCorrectionProblemsSSW (description="Maximum number of cases where a data sample from a SSW detector that was flagged as a glitch was not corrected", quantity="rad")
LongParameter	numberSecondLevelGlitchCorrectionProblemsSLW (description="Maximum number of cases where a data sample from a SLW detector that was flagged as a glitch was not corrected", quantity="rad")
LongParameter	phaseWrapSLW (description="Maximum number of times that in-band phase changes by +/-2pi in any of the SLW detectors", quantity="rad")
LongParameter	phaseWrapSSW (description="Maximum number of times that in-band phase changes by +/-2pi in any of the SSW detectors", quantity="rad")
DoubleParameter	deltaM2Temp (description="Maximum temperature variation of the telescope 2 temperature (in K)", quantity="K")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="K")
StringParameter	fileName (description="null", quantity="K")
Columns	
array dataset	(description="Brightness")
Metadata	

StringParameter	cunit1 (description="WCS: Unit axis 1, default=")"
StringParameter	cunit2 (description="WCS: Unit axis 2, default=")"
StringParameter	cunit3 (description="WCS: Unit axis 3, default=")"
StringParameter	radesys (description="WCS: Reference frame, default="ICRS")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crval3 (description="WCS: Wavelength, time, ... of reference layer; unit=length,time,...")
DoubleParameter	crpix3 (description="WCS: Reference layer index, unit=Scalar")
DoubleParameter	cdelt3 (description="WCS: Scale in 3rd dimension, unit=Length, Duration, ...")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represents")
<i>Columns</i>	
<i>Double3d</i> (description="Brightness", quantity="W m-2 Hz-1 sr-1")	

5.4.42. SPIRE Product Level 2 - Spire Preprocessed Cube

<i>product</i> (type="SPC", description="Spire Preprocessed Cube")	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")

StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	mapSampling (description="Spatial sampling of map")
StringParameter	biasMode (description="Bias mode")
LongParameter	pointNum (description="Pointing number")
LongParameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
StringParameter	commandedResolution (description="Commanded Spectral Resolution")
DoubleParameter	biasFreq (description="Bias frequency", quantity="Hz")
StringParameter	elecSide (description="Electronic side", quantity="Hz")
StringParameter	modelName (description="Model name attached to this product", quantity="Hz")
StringParameter	formatVersion (description="Version of product format", quantity="Hz")
StringParameter	missionConfig (description="Mission configuration", quantity="Hz")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	raDecOffset (description="The offset between the commanded position and the actual reconstructed pointing, which includes any systematic BSM offset (bsmOffset), but not the APE.", quantity="arcsec")
DoubleParameter	bsmOffset (description="BSM offset position (0.0 or 1.7 arcsec), which is corrected for by the point-source calibration. This systematic offset is included in the raDecOffset value.", quantity="arcsec")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
StringParameter	origin (description="Site that created the product", quantity="GHz")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="GHz")
StringParameter	type (description="Product Type Identification", quantity="GHz")

StringParameter	description (description="Name of this product", quantity="GHz")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="GHz")
StringParameter	calVersion (description="Calibration version", quantity="GHz")
StringParameter	level (description="The level of the product", quantity="GHz")
StringParameter	processResolution (description="The resolution that is to be used or was used to process the data", quantity="GHz")
LongParameter	numScans (description="Number of Scans", quantity="GHz")
StringParameter	bbTypeName (description="Building block type name", quantity="GHz")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="GHz")
StringParameter	apodType (description="Type of Apodization applied", quantity="GHz")
StringParameter	apodName (description="Name of Apodization function applied", quantity="GHz")
DoubleParameter	telescopeTempM2 (description="Telescope temperature M2 (in K)", quantity="K")
BooleanParameter	phaseCorrApplied (description="Phase correction has been applied", quantity="K")
StringParameter	signalTable (description="Name of the signal table", quantity="K")
LongParameter	maskDead (description="Mask value for dead channel", quantity="K")
LongParameter	maskMaster (description="Mask value for master bit", quantity="K")
LongParameter	maskNoisy (description="Mask value for noisy channel", quantity="K")
LongParameter	maskSlow (description="Mask value for slow channel", quantity="K")
BooleanParameter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="K")
LongParameter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="K")
LongParameter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="K")
LongParameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="K")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="K")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="K")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
DoubleParameter	slwBiasAmpl (description="SLW bias amplitude", quantity="V")
DoubleParameter	sswBiasAmpl (description="SSW bias amplitude", quantity="V")
DoubleParameter	slwBiasPhase (description="SLW bias phase", quantity="rad")
DoubleParameter	sswBiasPhase (description="SSW bias phase", quantity="rad")
BooleanParameter	rcRollApp (description="RC roll correction applied", quantity="rad")

LongParameter	maskGlitchL1Detected (description="Mask value for first level glitch detected", quantity="rad")
LongParameter	maskGlitchL1NotRemoved (description="Mask value for first level glitch detected and not removed", quantity="rad")
LongParameter	numberBelowK3VoltageSSW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="rad")
DoubleParameter	ratioSamplesOutOfCalibrationRangeSLW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="rad")
LongParameter	numberBelowK3VoltageSLW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="rad")
LongParameter	maskVoltageOol (description="Mask value for voltage out of fitted range", quantity="rad")
LongParameter	maskVoltageBelowK3 (description="Mask value for voltage below K3", quantity="rad")
LongParameter	maskNoRespData (description="Mask value for voltage out of fitted range and/or below K3", quantity="rad")
BooleanParameter	SpecNonLinearityCorrectionDone (description="null", quantity="rad")
StringParameter	respControlStamp (description="null", quantity="rad")
LongParameter	numberClippedDetectorsSLW (description="Maximum number of detectors in SLW where at least one sample was flagged as clipped and could not be corrected", quantity="rad")
LongParameter	numberClippedDetectorsSSW (description="Maximum number of detectors in SSW where at least one sample was flagged as clipped and could not be corrected", quantity="rad")
LongParameter	missedFringes (description="Maximum number of missed optical encoder fringes", quantity="rad")
LongParameter	smecOpenLoopCount (description="Number of housekeeping entries which indicate that the SMEC is not in closed loop", quantity="rad")
LongParameter	wrongBaselineSSW (description="Maximum number of detectors in SSW where the removed baseline is not a good approximation of the actual baseline in the interferogram", quantity="rad")
LongParameter	wrongBaselineSLW (description="Maximum number of detectors in SLW where the removed baseline is not a good approximation of the actual baseline in the interferogram", quantity="rad")
LongParameter	maskGlitchDetected (description="Mask value for glitch detected", quantity="rad")
LongParameter	maskGlitchNotRemoved (description="Mask value for glitch detected and not removed", quantity="rad")
LongParameter	maskUnreliableParameter (description="Mask value for unreliable telemetry parameter", quantity="rad")
LongParameter	maskNotChoppedToSky (description="Mask value for channel not chopped to sky", quantity="rad")
LongParameter	maskGlitchL2Detected (description="Mask value for second level glitch detected", quantity="rad")
LongParameter	maskGlitchL2NotRemoved (description="Mask value for second level glitch detected and not removed", quantity="rad")

LongParameter	maskTsignalHdv (description="Mask value for thermistor/DP signal deviations are larger than expected", quantity="rad")
LongParameter	maskBsmChopOol (description="Mask value for sample falls outside BSM chop soft limits", quantity="rad")
LongParameter	maskBsmJiggOol (description="Mask value for sample falls outside BSM Jiggle soft limits", quantity="rad")
LongParameter	maskJumpThermistorsDarkSignal (description="Mask value for signal jump in the thermistor/dark timeline", quantity="rad")
LongParameter	maskNoThermistorAvailable (description="Mask value for all the available thermistors are affected by either saturation or signal jump", quantity="rad")
LongParameter	maskNonNominalVelocity (description="Mask value for sample is not part of the nominal science scans of a scan map", quantity="rad")
LongParameter	maskNoDarkChannelAvailable (description="Mask value for all available dark channels in the array are affected by either saturation or signal jump", quantity="rad")
LongParameter	maskSerendipity (description="Mask value for sample belongs to serendipity mode", quantity="rad")
LongParameter	maskTurnaround (description="Mask value for sample belongs to a turnaround section of a scan map", quantity="rad")
DoubleParameter	ratioSpecSecondLevelGlitchIdentificationProblemsSSW (description="Maximum ratio of number of data samples where there were not enough valid scans to perform statistical outlier detection over the total number of data samples in the detectors of the SSW array", quantity="rad")
DoubleParameter	ratioSpecSecondLevelGlitchIdentificationProblemsSLW (description="Maximum ratio of number of data samples where there were not enough valid scans to perform statistical outlier detection over the total number of data samples in the detectors of the SLW array", quantity="rad")
LongParameter	numberSecondLevelGlitchCorrectionProblemsSSW (description="Maximum number of cases where a data sample from a SSW detector that was flagged as a glitch was not corrected", quantity="rad")
LongParameter	numberSecondLevelGlitchCorrectionProblemsSLW (description="Maximum number of cases where a data sample from a SLW detector that was flagged as a glitch was not corrected", quantity="rad")
LongParameter	phaseWrapSLW (description="Maximum number of times that in-band phase changes by +/-2pi in any of the SLW detectors", quantity="rad")
LongParameter	phaseWrapSSW (description="Maximum number of times that in-band phase changes by +/-2pi in any of the SSW detectors", quantity="rad")
DoubleParameter	deltaM2Temp (description="Maximum temperature variation of the telescope 2 temperature (in K)", quantity="K")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="K")
StringParameter	fileName (description="null", quantity="K")
<i>Columns</i>	
<i>table dataset</i>	(name="spectrum2d", description="null")
<i>Metadata</i>	
LongParameter	channels (description="Number of channels")
StringParameter	wavedescription (description="Description of WaveColumn")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	

<i>Double2d</i>	wave (description="Frequency", quantity="GHz")
<i>Double2d</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>Double2d</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>Double1d</i>	longitude (description="Ra pointing for this channel", quantity="deg")
<i>Double1d</i>	latitude (description="Dec pointing for this channel", quantity="deg")
<i>Int2d</i>	mask (description="Mask", quantity="1")
<i>Int2d</i>	numScans (description="Number Of Scans", quantity="1")
<i>String1d</i>	detector (description="null", quantity="none")
<i>Double1d</i>	resolution (description="null", quantity="none")
<i>Long1d</i>	jiggId (description="null", quantity="none")
<i>Long1d</i>	pointNum (description="null", quantity="none")
<i>Long1d</i>	numFft (description="null", quantity="none")
<i>Long1d</i>	numFftFull (description="null", quantity="none")
<i>Double1d</i>	nyquist (description="null", quantity="none")
<i>Double1d</i>	maxOpd (description="null", quantity="none")
<i>Double1d</i>	minOpd (description="null", quantity="none")
<i>Double1d</i>	deltaOpd (description="null", quantity="none")

5.4.43. SPIRE Product Level 2 - Spectrometer Detector Spectrum

<i>product (type="SDS", description="Spectrometer Detector Spectrum")</i>	
<i>Meta- da- ta</i>	
<i>String- Pa- ram- e- ter</i>	telescope (description="Name of telescope")
<i>String- Pa- ram- e- ter</i>	instrument (description="Instrument attached to this product")
<i>String- Pa- ram- e- ter</i>	subsystem (description="Instrument Subsystem")
<i>String- Pa- ram- e- ter</i>	source (description="TM source packet name")
<i>String- Pa-</i>	creator (description="Generator of this product")

ram- e- ter	
String- Pa- ram- e- ter	object (description="Target name")
String- Pa- ram- e- ter	observer (description="Observer name")
String- Pa- ram- e- ter	proposal (description="Proposal name")
Long- Pa- ram- e- ter	obsid (description="Observation identifier")
Long- Pa- ram- e- ter	odNumber (description="Operational day number")
DatePa- ram- e- ter	creationDate (description="Creation date of this product")
DatePa- ram- e- ter	startDate (description="Start date of this product")
DatePa- ram- e- ter	endDate (description="End date of this product")
String- Pa- ram- e- ter	aot (description="AOT Identifier")
String- Pa- ram- e- ter	aorLabel (description="AOR Label as entered in HSpot")
String- Pa- ram-	cusMode (description="CUS observation mode")

e- ter	
String- Pa- ram- e- ter	instMode (description="Instrument Mode")
String- Pa- ram- e- ter	obsMode (description="Observation mode name")
String- Pa- ram- e- ter	pointingMode (description="Pointing mode")
String- Pa- ram- e- ter	mapSampling (description="Spatial sampling of map")
String- Pa- ram- e- ter	biasMode (description="Bias mode")
Long- Pa- ram- e- ter	jiggId (description="Jiggle ID")
Long- Pa- ram- e- ter	pointNum (description="Pointing number")
Long- Pa- ram- e- ter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
DoublePa- ram- e- ter	onSourceTime (description="Total on-source integration time for this observation", quantity="s")
String- Pa- ram- e- ter	commandedResolution (description="Commanded Spectral Resolution", quantity="s")
DoublePa-	biasFreq (description="Bias frequency", quantity="Hz")

ram- e- ter	
String- Pa- ram- e- ter	elecSide (description="Electronic side", quantity="Hz")
String- Pa- ram- e- ter	modelName (description="Model name attached to this product", quantity="Hz")
String- Pa- ram- e- ter	formatVersion (description="Version of product format", quantity="Hz")
String- Pa- ram- e- ter	missionConfig (description="Mission configuration", quantity="Hz")
Dou- blePa- ram- e- ter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
String- Pa- ram- e- ter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
Dou- blePa- ram- e- ter	ra (description="Actual Right Ascension of pointing", quantity="deg")
Dou- blePa- ram- e- ter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
Dou- blePa- ram- e- ter	dec (description="Actual Declination of pointing", quantity="deg")
Dou- blePa- ram- e- ter	decNominal (description="Requested Declination of pointing", quantity="deg")

DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	raDecOffset (description="The offset between the commanded position and the actual reconstructed pointing, which includes any systematic BSM offset (bsmOffset), but not the APE.", quantity="arcsec")
DoubleParameter	bsmOffset (description="BSM offset position (0.0 or 1.7 arcsec), which is corrected for by the point-source calibration. This systematic offset is included in the raDecOffset value.", quantity="arcsec")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")

e- ter	
String- Pa- ram- e- ter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="km s-1")
String- Pa- ram- e- ter	calVersion (description="Calibration version", quantity="km s-1")
String- Pa- ram- e- ter	level (description="The level of the product", quantity="km s-1")
String- Pa- ram- e- ter	processResolution (description="The resolution that is to be used or was used to process the data", quantity="km s-1")
Long- Pa- ram- e- ter	numScans (description="Number of Scans", quantity="km s-1")
Long- Pa- ram- e- ter	bbid (description="Building Block Identifier", quantity="km s-1")
String- Pa- ram- e- ter	bbTypeName (description="Building block type name", quantity="km s-1")
String- Pa- ram- e- ter	freqFrame (description="Standard of rest for spectral axis", quantity="km s-1")
String- Pa- ram- e- ter	apodType (description="Type of Apodization applied", quantity="km s-1")
String- Pa- ram- e- ter	apodName (description="Name of Apodization function applied", quantity="km s-1")
DoublePa-	telescopeTempM1 (description="Telescope temperature M1 (in K)", quantity="K")

ram- e- ter	
DoublePa- ram- e- ter	telescopeTempM2 (description="Telescope temperature M2 (in K)", quantity="K")
Boolean- Pa- ram- e- ter	phaseCorrApplied (description="Phase correction has been applied", quantity="K")
String- Pa- ram- e- ter	signalTable (description="Name of the signal table", quantity="K")
Long- Pa- ram- e- ter	maskDead (description="Mask value for dead channel", quantity="K")
Long- Pa- ram- e- ter	maskMaster (description="Mask value for master bit", quantity="K")
Long- Pa- ram- e- ter	maskNoisy (description="Mask value for noisy channel", quantity="K")
Long- Pa- ram- e- ter	maskSlow (description="Mask value for slow channel", quantity="K")
Boolean- Pa- ram- e- ter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="K")
DoublePa- ram- e- ter	ratioTruncatedSSW (description="Maximum ratio of out of range values to total number of values in SSW data", quantity="K")
DoublePa- ram- e- ter	ratioTruncatedSLW (description="Maximum ratio of out of range values to total number of values in SLW data", quantity="K")

Long-Parameter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="K")
Long-Parameter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="K")
Long-Parameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="K")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="K")
Long-Parameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="K")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
DoubleParameter	slwBiasAmpl (description="SLW bias amplitude", quantity="V")
DoubleParameter	sswBiasAmpl (description="SSW bias amplitude", quantity="V")
DoubleParameter	slwBiasPhase (description="SLW bias phase", quantity="rad")

	e- ter	
DoubleParameter		sswBiasPhase (description="SSW bias phase", quantity="rad")
BooleanParameter		rcRollApp (description="RC roll correction applied", quantity="rad")
DoubleParameter		subkTempDrift (description="Drift measured by the SubK temperature probe", quantity="K")
LongParameter		maskGlitchL1Detected (description="Mask value for first level glitch detected", quantity="K")
LongParameter		maskGlitchL1NotRemoved (description="Mask value for first level glitch detected and not removed", quantity="K")
DoubleParameter		ratioSpecFirstLevelGlitchesSLW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the SLW array", quantity="K")
DoubleParameter		ratioSpecFirstLevelGlitchesSSW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the SSW array", quantity="K")
DoubleParameter		ratioSamplesOutOfCalibrationRangeSSW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="K")
LongParameter		numberBelowK3VoltageSSW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="K")
DoubleParameter		ratioSamplesOutOfCalibrationRangeSLW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="K")

Long-Parameter	numberBelowK3VoltageSLW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="K")
Long-Parameter	maskVoltageOol (description="Mask value for voltage out of fitted range", quantity="K")
Long-Parameter	maskVoltageBelowK3 (description="Mask value for voltage below K3", quantity="K")
Long-Parameter	maskNoRespData (description="Mask value for voltage out of fitted range and/or below K3", quantity="K")
Boolean-Parameter	SpecNonLinearityCorrectionDone (description="null", quantity="K")
String-Parameter	respControlStamp (description="null", quantity="K")
Long-Parameter	numberClippedDetectorsSLW (description="Maximum number of detectors in SLW where at least one sample was flagged as clipped and could not be corrected", quantity="K")
Long-Parameter	numberClippedDetectorsSSW (description="Maximum number of detectors in SSW where at least one sample was flagged as clipped and could not be corrected", quantity="K")
DoubleParameter	scanExtrema (description="Maximum ratio of mesured SMEC scan extrema to commanded scan extrema", quantity="K")
DoubleParameter	smecTemperature (description="Maximum ddifference between maximum and minimum SMEC temperatures (in K)", quantity="K")
Long-Parameter	missedFringes (description="Maximum number of missed optical encoder fringes", quantity="K")

e- ter	
DoubleParameter	stageSpeedAverage (description="Maximum ratio of the measured SMEC speed to the commanded SMEC speed", quantity="K")
e- ter	
DoubleParameter	stageSpeedDeviation (description="Maximum standard deviation of the SMEC speed (in micron/s)", quantity="K")
e- ter	
LongParameter	smecOpenLoopCount (description="Number of housekeeping entries which indicate that the SMEC is not in closed loop", quantity="K")
e- ter	
LongParameter	wrongBaselineSSW (description="Maximum number of detectors in SSW where the removed baseline is not a good approximation of the actual baseline in the interferogram", quantity="K")
e- ter	
LongParameter	wrongBaselineSLW (description="Maximum number of detectors in SLW where the removed baseline is not a good approximation of the actual baseline in the interferogram", quantity="K")
e- ter	
LongParameter	maskGlitchDetected (description="Mask value for glitch detected", quantity="K")
e- ter	
LongParameter	maskGlitchNotRemoved (description="Mask value for glitch detected and not removed", quantity="K")
e- ter	
LongParameter	maskUnreliableParameter (description="Mask value for unreliable telemetry parameter", quantity="K")
e- ter	
LongParameter	maskNotChoppedToSky (description="Mask value for channel not chopped to sky", quantity="K")
e- ter	
LongParameter	maskGlitchL2Detected (description="Mask value for second level glitch detected", quantity="K")
e- ter	
LongParameter	maskGlitchL2NotRemoved (description="Mask value for second level glitch detected and not removed", quantity="K")

ram- e- ter	
Long- Pa- ram- e- ter	maskTsignalHdv (description="Mask value for thermistor/DP signal deviations are larger than expected", quantity="K")
Long- Pa- ram- e- ter	maskBsmChopOol (description="Mask value for sample falls outside BSM chop soft limits", quantity="K")
Long- Pa- ram- e- ter	maskBsmJiggOol (description="Mask value for sample falls outside BSM Jiggle soft limits", quantity="K")
Long- Pa- ram- e- ter	maskJumpThermistorsDarksSignal (description="Mask value for signal jump in the thermistor/dark timeline", quantity="K")
Long- Pa- ram- e- ter	maskNoThermistorAvailable (description="Mask value for all the available thermistors are affected by either saturation or signal jump", quantity="K")
Long- Pa- ram- e- ter	maskNonNominalVelocity (description="Mask value for sample is not part of the nominal science scans of a scan map", quantity="K")
Long- Pa- ram- e- ter	maskNoDarkChannelAvailable (description="Mask value for all available dark channels in the array are affected by either saturation or signal jump", quantity="K")
Long- Pa- ram- e- ter	maskSerendipity (description="Mask value for sample belongs to serendipity mode", quantity="K")
Long- Pa- ram- e- ter	maskTurnaround (description="Mask value for sample belongs to a turnaround section of a scan map", quantity="K")
DoublePa- ram- e- ter	ratioSpecSecondLevelGlitchesSSW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the SSW array", quantity="K")

DoubleParameter	ratioSpecSecondLevelGlitchesSLW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the SLW array", quantity="K")
DoubleParameter	ratioSpecSecondLevelGlitchIdentificationProblemsSSW (description="Maximum ratio of number of data samples where there were not enough valid scans to perform statistical outlier detection over the total number of data samples in the detectors of the SSW array", quantity="K")
DoubleParameter	ratioSpecSecondLevelGlitchIdentificationProblemsSLW (description="Maximum ratio of number of data samples where there were not enough valid scans to perform statistical outlier detection over the total number of data samples in the detectors of the SLW array", quantity="K")
LongParameter	numberSecondLevelGlitchCorrectionProblemsSSW (description="Maximum number of cases where a data sample from a SSW detector that was flagged as a glitch was not corrected", quantity="K")
LongParameter	numberSecondLevelGlitchCorrectionProblemsSLW (description="Maximum number of cases where a data sample from a SLW detector that was flagged as a glitch was not corrected", quantity="K")
LongParameter	phaseWrapSLW (description="Maximum number of times that in-band phase changes by +/-2pi in any of the SLW detectors", quantity="K")
LongParameter	phaseWrapSSW (description="Maximum number of times that in-band phase changes by +/-2pi in any of the SSW detectors", quantity="K")
DoubleParameter	residualPhaseSLW (description="Maximum phase within the phase correction limits (in units of degree) for SLW", quantity="K")
DoubleParameter	residualPhaseSSW (description="Maximum phase within the phase correction limits (in units of degree) for SSW", quantity="K")
DoubleParameter	outOfBandHighRatioSLW (description="Maximum ratio of the mean of the absolute flux between 1200 and 5996 GHz over the mean of the absolute flux within the band edges.", quantity="K")
DoubleParameter	outOfBandHighRatioSSW (description="Maximum ratio of the mean of the absolute flux between 1799 and 5996 GHz over the mean of the absolute flux within the band edges.", quantity="K")

e- ter	
DoubleParameter	outOfBandLowRatioSLW (description="Maximum ratio of the mean of the absolute flux between 0.03 and 360 GHz over the mean of the absolute flux within the band edges.", quantity="K")
e- ter	
DoubleParameter	outOfBandLowRatioSSW (description="Maximum ratio of the mean of the absolute flux between 0.03 and 900 GHz over the mean of the absolute flux within the band edges.", quantity="K")
e- ter	
DoubleParameter	deltaSCalTemp (description="SCal maximum temperature variation (in K)", quantity="K")
e- ter	
DoubleParameter	deltaSCal2Temp (description="SCal2 maximum temperature variation (in K)", quantity="K")
e- ter	
DoubleParameter	deltaSCal4Temp (description="SCal4 maximum temperature variation (in K)", quantity="K")
e- ter	
DoubleParameter	deltaM1Temp (description="Maximum temperature variation of the telescope 1 temperature (in K)", quantity="K")
e- ter	
DoubleParameter	deltaM2Temp (description="Maximum temperature variation of the telescope 2 temperature (in K)", quantity="K")
e- ter	
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="K")
e- ter	
StringParameter	fileName (description="null", quantity="K")
e- ter	
LongParameter	photObsid000 (description="SPIRE photometer map obsid that overlaps with this observation - 000", quantity="K")
e- ter	
LongParameter	photObsid001 (description="SPIRE photometer map obsid that overlaps with this observation - 001", quantity="K")
ram-	

	e-ter	
Long-Parameter	photObsid002 (description="SPIRE photometer map obsid that overlaps with this observation - 002", quantity="K")	
Long-Parameter	photObsid003 (description="SPIRE photometer map obsid that overlaps with this observation - 003", quantity="K")	
Columns		
composite	(description="null")	
Meta-data		
Long-Parameter	count (description="Set number")	
Long-Parameter	scanNumber (description="Scan number")	
String-Parameter	scanDir (description="Scan direction")	
DateParameter	scanStartDate (description="Start date of the FTS scan")	
DateParameter	scanEndDate (description="End date of the FTS scan")	
Columns		
table dataset	(name="SLWA1", description="null")	
Meta-data		
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")	
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")	

String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")

<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i> <i>dataset</i>	(name="SLWA2", description="null")
<i>Meta-</i> <i>data</i>	
<i>DoublePa-</i> <i>rameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoublePa-</i> <i>rameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>String-</i> <i>Pa-</i> <i>rameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoublePa-</i> <i>rameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Long-</i> <i>Pa-</i> <i>rameter</i>	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
<i>Quantifi-</i> <i>ablePa-</i> <i>rameter</i>	waveunit (description="null", quantity="deg")
<i>String-</i> <i>Pa-</i> <i>rameter</i>	wavedescription (description="Description of WaveColumn", quantity="deg")
<i>DoublePa-</i> <i>rameter</i>	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
<i>DoublePa-</i> <i>rameter</i>	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
<i>DoublePa-</i> <i>rameter</i>	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")

	DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
	DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
	LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SLWA3", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
	LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")

QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SLWB1", description="null")
<i>Meta-data</i>	

DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")

Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
DoubleId	wave (description="Frequency", quantity="GHz")
DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
IntId	mask (description="Mask", quantity="1")
IntId	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SLWB2", description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")

DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
DoubleId	wave (description="Frequency", quantity="GHz")
DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
IntId	mask (description="Mask", quantity="1")
IntId	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SLWB3", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")

DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")

<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i> <i>dataset</i>	(name="SLWB4", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")

	DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
	LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
	table	(name="SLWC1", description="null")
<i>dataset</i>		
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	StringParameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
	LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
	QuantifiableParameter	waveunit (description="null", quantity="deg")

String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SLWC2", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")

DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")

<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SLWC3", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>StringParameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>LongParameter</i>	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
<i>QuantifiableParameter</i>	waveunit (description="null", quantity="deg")
<i>StringParameter</i>	wavedescription (description="Description of WaveColumn", quantity="deg")
<i>DoubleParameter</i>	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
<i>DoubleParameter</i>	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")

DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SLWC4", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")

<i>table</i> <i>dataset</i>	(name="SLWC5", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")

	parameter	
	Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SLWD1", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	String-Parameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
	Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
	QuantifiableParameter	waveunit (description="null", quantity="deg")
	String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")

	parameter	
	DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
	DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
	DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
	LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SLWD2", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoublePa-	ra (description="Ra pointing for this channel", quantity="deg")

parameter	
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	

<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i> <i>dataset</i>	(name="SLWD3", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>String-Parameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Long-Parameter</i>	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
<i>QuantifiableParameter</i>	waveunit (description="null", quantity="deg")
<i>String-Parameter</i>	wavedescription (description="Description of WaveColumn", quantity="deg")
<i>DoubleParameter</i>	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
<i>DoubleParameter</i>	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")

DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SLWD4", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")

<i>table</i> <i>dataset</i>	(name="SLWE1", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")

	parameter	
	Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SLWE2", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	String-Parameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
	Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
	QuantifiableParameter	waveunit (description="null", quantity="deg")
	String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")

	parameter	
	DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
	DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
	DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
	LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SLWE3", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")

parameter	
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	

<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i> <i>dataset</i>	(name="SSWA1", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>String-Parameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Long-Parameter</i>	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
<i>QuantifiableParameter</i>	waveunit (description="null", quantity="deg")
<i>String-Parameter</i>	wavedescription (description="Description of WaveColumn", quantity="deg")
<i>DoubleParameter</i>	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
<i>DoubleParameter</i>	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")

DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWA2", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")

<i>table</i>	(name="SSWA3", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")

	parameter	
	Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SSWA4", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	String-Parameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
	Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
	QuantifiableParameter	waveunit (description="null", quantity="deg")
	String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")

	parameter	
	DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
	DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
	DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
	LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SSWB1", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")

parameter	
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	

<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWB2", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>String-Parameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Long-Parameter</i>	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
<i>QuantifiableParameter</i>	waveunit (description="null", quantity="deg")
<i>String-Parameter</i>	wavedescription (description="Description of WaveColumn", quantity="deg")
<i>DoubleParameter</i>	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
<i>DoubleParameter</i>	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")

DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWB3", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")

table dataset	(name="SSWB4", description="null")
Meta- data	
DoublePa- rame- ter	dec (description="Dec pointing for this channel", quantity="deg")
DoublePa- rame- ter	ra (description="Ra pointing for this channel", quantity="deg")
String- Pa- rame- ter	channelName (description="Channel name", quantity="deg")
DoublePa- rame- ter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long- Pa- rame- ter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
Quantifi- ablePa- rame- ter	waveunit (description="null", quantity="deg")
String- Pa- rame- ter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoublePa- rame- ter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoublePa- rame- ter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoublePa- rame- ter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoublePa- rame- ter	deltaOpd (description="OPD Step Size", quantity="cm")
DoublePa-	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")

	parameter	
	Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SSWB5", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	String-Parameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
	Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
	QuantifiableParameter	waveunit (description="null", quantity="deg")
	String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")

	parameter	
	DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
	DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
	DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
	LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SSWC1", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")

parameter	
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	

<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i> <i>dataset</i>	(name="SSWC2", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>String-Parameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Long-Parameter</i>	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
<i>QuantifiableParameter</i>	waveunit (description="null", quantity="deg")
<i>String-Parameter</i>	wavedescription (description="Description of WaveColumn", quantity="deg")
<i>DoubleParameter</i>	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
<i>DoubleParameter</i>	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")

DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWC3", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")

table dataset	(name="SSWC4", description="null")
Meta- data	
DoublePa- rame- ter	dec (description="Dec pointing for this channel", quantity="deg")
DoublePa- rame- ter	ra (description="Ra pointing for this channel", quantity="deg")
String- Pa- rame- ter	channelName (description="Channel name", quantity="deg")
DoublePa- rame- ter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long- Pa- rame- ter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
Quantifi- ablePa- rame- ter	waveunit (description="null", quantity="deg")
String- Pa- rame- ter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoublePa- rame- ter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoublePa- rame- ter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoublePa- rame- ter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoublePa- rame- ter	deltaOpd (description="OPD Step Size", quantity="cm")
DoublePa-	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")

	parameter	
	Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SSWC5", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	String-Parameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
	Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
	QuantifiableParameter	waveunit (description="null", quantity="deg")
	String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")

	parameter	
	DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
	DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
	DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
	LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SSWC6", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")

parameter	
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	

<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i> <i>dataset</i>	(name="SSWD1", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>String-Parameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Long-Parameter</i>	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
<i>QuantifiableParameter</i>	waveunit (description="null", quantity="deg")
<i>String-Parameter</i>	wavedescription (description="Description of WaveColumn", quantity="deg")
<i>DoubleParameter</i>	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
<i>DoubleParameter</i>	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")

DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWD2", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")

<i>table</i> <i>dataset</i>	(name="SSWD3", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")

	parameter	
	Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SSWD4", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	String-Parameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
	Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
	QuantifiableParameter	waveunit (description="null", quantity="deg")
	String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")

	parameter	
	DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
	DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
	DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
	LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SSWD6", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoublePa-	ra (description="Ra pointing for this channel", quantity="deg")

parameter	
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	

<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i> <i>dataset</i>	(name="SSWD7", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>String-Parameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Long-Parameter</i>	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
<i>QuantifiableParameter</i>	waveunit (description="null", quantity="deg")
<i>String-Parameter</i>	wavedescription (description="Description of WaveColumn", quantity="deg")
<i>DoubleParameter</i>	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
<i>DoubleParameter</i>	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")

DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWE1", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")

table dataset	(name="SSWE2", description="null")
Meta- data	
DoublePa- rame- ter	dec (description="Dec pointing for this channel", quantity="deg")
DoublePa- rame- ter	ra (description="Ra pointing for this channel", quantity="deg")
String- Pa- rame- ter	channelName (description="Channel name", quantity="deg")
DoublePa- rame- ter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long- Pa- rame- ter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
Quantifi- ablePa- rame- ter	waveunit (description="null", quantity="deg")
String- Pa- rame- ter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoublePa- rame- ter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoublePa- rame- ter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoublePa- rame- ter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoublePa- rame- ter	deltaOpd (description="OPD Step Size", quantity="cm")
DoublePa-	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")

	parameter	
	Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SSWE3", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	String-Parameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
	Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
	QuantifiableParameter	waveunit (description="null", quantity="deg")
	String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")

	parameter	
	DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
	DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
	DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
	LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
	<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	<i>IntId</i>	mask (description="Mask", quantity="1")
	<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWE4", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")

parameter	
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	

<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i> <i>dataset</i>	(name="SSWE5", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>String-Parameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Long-Parameter</i>	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
<i>QuantifiableParameter</i>	waveunit (description="null", quantity="deg")
<i>String-Parameter</i>	wavedescription (description="Description of WaveColumn", quantity="deg")
<i>DoubleParameter</i>	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
<i>DoubleParameter</i>	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")

DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWE6", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")

<i>table</i> <i>dataset</i>	(<i>name</i> ="SSWF1", <i>description</i> ="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")

	parameter	
	Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>		(name="SSWF2", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	String-Parameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
	Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
	QuantifiableParameter	waveunit (description="null", quantity="deg")
	String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")

	parameter	
	DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
	DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
	DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
	LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SSWF3", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoublePa-	ra (description="Ra pointing for this channel", quantity="deg")

parameter	
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	

<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWF5", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>String-Parameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoubleParameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
<i>Long-Parameter</i>	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
<i>QuantifiableParameter</i>	waveunit (description="null", quantity="deg")
<i>String-Parameter</i>	wavedescription (description="Description of WaveColumn", quantity="deg")
<i>DoubleParameter</i>	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
<i>DoubleParameter</i>	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")

DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWGI", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")

table dataset	(name="SSWG2", description="null")
Meta- data	
DoublePa- rame- ter	dec (description="Dec pointing for this channel", quantity="deg")
DoublePa- rame- ter	ra (description="Ra pointing for this channel", quantity="deg")
String- Pa- rame- ter	channelName (description="Channel name", quantity="deg")
DoublePa- rame- ter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long- Pa- rame- ter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
Quantifi- ablePa- rame- ter	waveunit (description="null", quantity="deg")
String- Pa- rame- ter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoublePa- rame- ter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoublePa- rame- ter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoublePa- rame- ter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoublePa- rame- ter	deltaOpd (description="OPD Step Size", quantity="cm")
DoublePa-	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")

	parameter	
	Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SSWG3", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
	String-Parameter	channelName (description="Channel name", quantity="deg")
	DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
	Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
	QuantifiableParameter	waveunit (description="null", quantity="deg")
	String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")

	parameter	
	DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
	DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
	DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
	DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
	LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
	LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>		
	DoubleId	wave (description="Frequency", quantity="GHz")
	DoubleId	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
	DoubleId	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
	IntId	mask (description="Mask", quantity="1")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SSWG4", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
	DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")

parameter	
String-Parameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
Long-Parameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
String-Parameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
Long-Parameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
Long-Parameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	

<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Brightness", quantity="W m-2 Hz-1 sr-1")
<i>DoubleId</i>	error (description="Uncertainty", quantity="W m-2 Hz-1 sr-1")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")

5.4.44. SPIRE Product Level 2 - Spectrometer Point Source Spectrum

<i>product (type="SPSS", description="Spectrometer Point Source Spectrum")</i>	
<i>Meta-data</i>	
String-Parameter	telescope (description="Name of telescope")
String-Parameter	instrument (description="Instrument attached to this product")
String-Parameter	subsystem (description="Instrument Subsystem")
String-Parameter	source (description="TM source packet name")
String-Parameter	creator (description="Generator of this product")
String-Parameter	object (description="Target name")
String-Parameter	observer (description="Observer name")
String-Parameter	proposal (description="Proposal name")
Long-Parameter	obsid (description="Observation identifier")

parameter	
Long-Parameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
String-Parameter	aot (description="AOT Identifier")
String-Parameter	aorLabel (description="AOR Label as entered in HSpot")
String-Parameter	cusMode (description="CUS observation mode")
String-Parameter	instMode (description="Instrument Mode")
String-Parameter	obsMode (description="Observation mode name")
String-Parameter	pointingMode (description="Pointing mode")
String-Parameter	mapSampling (description="Spatial sampling of map")
String-Parameter	biasMode (description="Bias mode")
Long-Parameter	jiggId (description="Jiggle ID")

Long-Parameter	pointNum (description="Pointing number")
Long-Parameter	numRepetitions (description="Number of times to repeat the basic unit of the observation")
DoubleParameter	onSourceTime (description="Total on-source integration time for this observation", quantity="s")
String-Parameter	commandedResolution (description="Commanded Spectral Resolution", quantity="s")
DoubleParameter	biasFreq (description="Bias frequency", quantity="Hz")
String-Parameter	elecSide (description="Electronic side", quantity="Hz")
String-Parameter	modelName (description="Model name attached to this product", quantity="Hz")
String-Parameter	formatVersion (description="Version of product format", quantity="Hz")
String-Parameter	missionConfig (description="Mission configuration", quantity="Hz")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
String-Parameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")

DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec/year")
DoubleParameter	raDecOffset (description="The offset between the commanded position and the actual reconstructed pointing, which includes any systematic BSM offset (bsmOffset), but not the APE.", quantity="arcsec")
DoubleParameter	bsmOffset (description="BSM offset position (0.0 or 1.7 arcsec), which is corrected for by the point-source calibration. This systematic offset is included in the raDecOffset value.", quantity="arcsec")
DoubleParameter	radialVelocity (description="Spacecraft velocity along the l-of-s of the telescope wrt the LSR", quantity="km s-1")
StringParameter	velocityDefinition (description="The velocity definition and frame", quantity="km s-1")
StringParameter	origin (description="Site that created the product", quantity="km s-1")
StringParameter	processingMode (description="Processing mode selected to execute the pipeline", quantity="km s-1")
StringParameter	type (description="Product Type Identification", quantity="km s-1")
StringParameter	description (description="Name of this product", quantity="km s-1")

String-Parameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="km s-1")
String-Parameter	calVersion (description="Calibration version", quantity="km s-1")
String-Parameter	level (description="The level of the product", quantity="km s-1")
String-Parameter	processResolution (description="The resolution that is to be used or was used to process the data", quantity="km s-1")
Long-Parameter	numScans (description="Number of Scans", quantity="km s-1")
Long-Parameter	bbid (description="Building Block Identifier", quantity="km s-1")
String-Parameter	bbTypeName (description="Building block type name", quantity="km s-1")
String-Parameter	freqFrame (description="Standard of rest for spectral axis", quantity="km s-1")
String-Parameter	apodType (description="Type of Apodization applied", quantity="km s-1")
String-Parameter	apodName (description="Name of Apodization function applied", quantity="km s-1")
DoubleParameter	telescopeTempM1 (description="Telescope temperature M1 (in K)", quantity="K")
DoubleParameter	telescopeTempM2 (description="Telescope temperature M2 (in K)", quantity="K")
Boolean-Parameter	phaseCorrApplied (description="Phase correction has been applied", quantity="K")

String-Parameter	signalTable (description="Name of the signal table", quantity="K")
Long-Parameter	maskDead (description="Mask value for dead channel", quantity="K")
Long-Parameter	maskMaster (description="Mask value for master bit", quantity="K")
Long-Parameter	maskNoisy (description="Mask value for noisy channel", quantity="K")
Long-Parameter	maskSlow (description="Mask value for slow channel", quantity="K")
Boolean-Parameter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="K")
DoubleParameter	ratioTruncatedSSW (description="Maximum ratio of out of range values to total number of values in SSW data", quantity="K")
DoubleParameter	ratioTruncatedSLW (description="Maximum ratio of out of range values to total number of values in SLW data", quantity="K")
Long-Parameter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="K")
Long-Parameter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="K")
Long-Parameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="K")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="K")
Long-Parameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="K")

DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
DoubleParameter	slwBiasAmpl (description="SLW bias amplitude", quantity="V")
DoubleParameter	sswBiasAmpl (description="SSW bias amplitude", quantity="V")
DoubleParameter	slwBiasPhase (description="SLW bias phase", quantity="rad")
DoubleParameter	sswBiasPhase (description="SSW bias phase", quantity="rad")
BooleanParameter	rcRollApp (description="RC roll correction applied", quantity="rad")
DoubleParameter	subkTempDrift (description="Drift measured by the SubK temperature probe", quantity="K")
LongParameter	maskGlitchL1Detected (description="Mask value for first level glitch detected", quantity="K")
LongParameter	maskGlitchL1NotRemoved (description="Mask value for first level glitch detected and not removed", quantity="K")
DoubleParameter	ratioSpecFirstLevelGlitchesSLW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the SLW array", quantity="K")
DoubleParameter	ratioSpecFirstLevelGlitchesSSW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the SSW array", quantity="K")

DoubleParameter	ratioSamplesOutOfCalibrationRangeSSW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="K")
LongParameter	numberBelowK3VoltageSSW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="K")
DoubleParameter	ratioSamplesOutOfCalibrationRangeSLW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array", quantity="K")
LongParameter	numberBelowK3VoltageSLW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter", quantity="K")
LongParameter	maskVoltageOol (description="Mask value for voltage out of fitted range", quantity="K")
LongParameter	maskVoltageBelowK3 (description="Mask value for voltage below K3", quantity="K")
LongParameter	maskNoRespData (description="Mask value for voltage out of fitted range and/or below K3", quantity="K")
BooleanParameter	SpecNonLinearityCorrectionDone (description="null", quantity="K")
StringParameter	respControlStamp (description="null", quantity="K")
LongParameter	numberClippedDetectorsSLW (description="Maximum number of detectors in SLW where at least one sample was flagged as clipped and could not be corrected", quantity="K")
LongParameter	numberClippedDetectorsSSW (description="Maximum number of detectors in SSW where at least one sample was flagged as clipped and could not be corrected", quantity="K")
DoubleParameter	scanExtrema (description="Maximum ratio of measured SMEC scan extrema to commanded scan extrema", quantity="K")
DoubleParameter	smecTemperature (description="Maximum difference between maximum and minimum SMEC temperatures (in K)", quantity="K")

Long-Parameter	missedFringes (description="Maximum number of missed optical encoder fringes", quantity="K")
DoubleParameter	stageSpeedAverage (description="Maximum ratio of the measured SMEC speed to the commanded SMEC speed", quantity="K")
DoubleParameter	stageSpeedDeviation (description="Maximum standard deviation of the SMEC speed (in micron/s)", quantity="K")
Long-Parameter	smecOpenLoopCount (description="Number of housekeeping entries which indicate that the SMEC is not in closed loop", quantity="K")
Long-Parameter	wrongBaselineSSW (description="Maximum number of detectors in SSW where the removed baseline is not a good approximation of the actual baseline in the interferogram", quantity="K")
Long-Parameter	wrongBaselineSLW (description="Maximum number of detectors in SLW where the removed baseline is not a good approximation of the actual baseline in the interferogram", quantity="K")
Long-Parameter	maskGlitchDetected (description="Mask value for glitch detected", quantity="K")
Long-Parameter	maskGlitchNotRemoved (description="Mask value for glitch detected and not removed", quantity="K")
Long-Parameter	maskUnreliableParameter (description="Mask value for unreliable telemetry parameter", quantity="K")
Long-Parameter	maskNotChoppedToSky (description="Mask value for channel not chopped to sky", quantity="K")
Long-Parameter	maskGlitchL2Detected (description="Mask value for second level glitch detected", quantity="K")
Long-Parameter	maskGlitchL2NotRemoved (description="Mask value for second level glitch detected and not removed", quantity="K")
Long-Parameter	maskTsignalHdv (description="Mask value for thermistor/DP signal deviations are larger than expected", quantity="K")

Long-Parameter	maskBsmChopOol (description="Mask value for sample falls outside BSM chop soft limits", quantity="K")
Long-Parameter	maskBsmJiggOol (description="Mask value for sample falls outside BSM Jiggle soft limits", quantity="K")
Long-Parameter	maskJumpThermistorsDarksSignal (description="Mask value for signal jump in the thermistor/dark timeline", quantity="K")
Long-Parameter	maskNoThermistorAvailable (description="Mask value for all the available thermistors are affected by either saturation or signal jump", quantity="K")
Long-Parameter	maskNonNominalVelocity (description="Mask value for sample is not part of the nominal science scans of a scan map", quantity="K")
Long-Parameter	maskNoDarkChannelAvailable (description="Mask value for all available dark channels in the array are affected by either saturation or signal jump", quantity="K")
Long-Parameter	maskSerendipity (description="Mask value for sample belongs to serendipity mode", quantity="K")
Long-Parameter	maskTurnaround (description="Mask value for sample belongs to a turnaround section of a scan map", quantity="K")
DoubleParameter	ratioSpecSecondLevelGlitchesSSW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the SSW array", quantity="K")
DoubleParameter	ratioSpecSecondLevelGlitchesSLW (description="Maximum ratio of number of flagged samples over number of data samples in the detectors of the SLW array", quantity="K")
DoubleParameter	ratioSpecSecondLevelGlitchIdentificationProblemsSSW (description="Maximum ratio of number of data samples where there were not enough valid scans to perform statistical outlier detection over the total number of data samples in the detectors of the SSW array", quantity="K")
DoubleParameter	ratioSpecSecondLevelGlitchIdentificationProblemsSLW (description="Maximum ratio of number of data samples where there were not enough valid scans to perform statistical outlier detection over the total number of data samples in the detectors of the SLW array", quantity="K")
Long-Parameter	numberSecondLevelGlitchCorrectionProblemsSSW (description="Maximum number of cases where a data sample from a SSW detector that was flagged as a glitch was not corrected", quantity="K")

Long-Parameter	numberSecondLevelGlitchCorrectionProblemsSLW (description="Maximum number of cases where a data sample from a SLW detector that was flagged as a glitch was not corrected", quantity="K")
Long-Parameter	phaseWrapSLW (description="Maximum number of times that in-band phase changes by +/-2pi in any of the SLW detectors", quantity="K")
Long-Parameter	phaseWrapSSW (description="Maximum number of times that in-band phase changes by +/-2pi in any of the SSW detectors", quantity="K")
DoubleParameter	residualPhaseSLW (description="Maximum phase within the phase correction limits (in units of degree) for SLW", quantity="K")
DoubleParameter	residualPhaseSSW (description="Maximum phase within the phase correction limits (in units of degree) for SSW", quantity="K")
DoubleParameter	outOfBandHighRatioSLW (description="Maximum ratio of the mean of the absolute flux between 1200 and 5996 GHz over the mean of the absolute flux within the band edges.", quantity="K")
DoubleParameter	outOfBandHighRatioSSW (description="Maximum ratio of the mean of the absolute flux between 1799 and 5996 GHz over the mean of the absolute flux within the band edges.", quantity="K")
DoubleParameter	outOfBandLowRatioSLW (description="Maximum ratio of the mean of the absolute flux between 0.03 and 360 GHz over the mean of the absolute flux within the band edges.", quantity="K")
DoubleParameter	outOfBandLowRatioSSW (description="Maximum ratio of the mean of the absolute flux between 0.03 and 900 GHz over the mean of the absolute flux within the band edges.", quantity="K")
DoubleParameter	deltaSCalTemp (description="SCal maximum temperature variation (in K)", quantity="K")
DoubleParameter	deltaSCal2Temp (description="SCal2 maximum temperature variation (in K)", quantity="K")
DoubleParameter	deltaSCal4Temp (description="SCal4 maximum temperature variation (in K)", quantity="K")
DoubleParameter	deltaM1Temp (description="Maximum temperature variation of the telescope 1 temperature (in K)", quantity="K")

DoubleParameter	deltaM2Temp (description="Maximum temperature variation of the telescope 2 temperature (in K)", quantity="K")
DateParameter	slewTime (description="Scheduled start time of the slew", quantity="K")
StringParameter	fileName (description="null", quantity="K")
LongParameter	photObsid000 (description="SPIRE photometer map obsid that overlaps with this observation - 000", quantity="K")
LongParameter	photObsid001 (description="SPIRE photometer map obsid that overlaps with this observation - 001", quantity="K")
LongParameter	photObsid002 (description="SPIRE photometer map obsid that overlaps with this observation - 002", quantity="K")
LongParameter	photObsid003 (description="SPIRE photometer map obsid that overlaps with this observation - 003", quantity="K")
Columns	
compos- ite	(description="null")
Meta- data	
LongParameter	count (description="Set number")
LongParameter	scanNumber (description="Scan number")
String- Parame- ter	scanDir (description="Scan direction")
DatePa- rameter	scanStartDate (description="Start date of the FTS scan")
DatePa- rameter	scanEndDate (description="End date of the FTS scan")
Columns	
table dataset	(name="SLWB2", description="null")
Metada- ta	
DoublePa- rameter	dec (description="Dec pointing for this channel", quantity="deg")

DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>Double1d</i>	wave (description="Frequency", quantity="GHz")
<i>Double1d</i>	flux (description="Flux Density", quantity="Jy")
<i>Double1d</i>	error (description="Uncertainty", quantity="Jy")
<i>Int1d</i>	mask (description="Mask", quantity="1")
<i>Int1d</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SLWB3", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")

QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
Double1d	wave (description="Frequency", quantity="GHz")
Double1d	flux (description="Flux Density", quantity="Jy")
Double1d	error (description="Uncertainty", quantity="Jy")
Int1d	mask (description="Mask", quantity="1")
Int1d	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SLWC2", description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")

DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
Double1d	wave (description="Frequency", quantity="GHz")
Double1d	flux (description="Flux Density", quantity="Jy")
Double1d	error (description="Uncertainty", quantity="Jy")
Int1d	mask (description="Mask", quantity="1")
Int1d	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SLWC3", description="null")
Metada- ta	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")

LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
DoubleId	wave (description="Frequency", quantity="GHz")
DoubleId	flux (description="Flux Density", quantity="Jy")
DoubleId	error (description="Uncertainty", quantity="Jy")
IntId	mask (description="Mask", quantity="1")
IntId	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SLWC4", description="null")
Meta- data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
DoubleId	wave (description="Frequency", quantity="GHz")
DoubleId	flux (description="Flux Density", quantity="Jy")
DoubleId	error (description="Uncertainty", quantity="Jy")
IntId	mask (description="Mask", quantity="1")
IntId	numScans (description="Number Of Scans", quantity="1")

<i>table</i>	(name="SLWD2", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>Double1d</i>	wave (description="Frequency", quantity="GHz")
<i>Double1d</i>	flux (description="Flux Density", quantity="Jy")
<i>Double1d</i>	error (description="Uncertainty", quantity="Jy")
<i>Int1d</i>	mask (description="Mask", quantity="1")
<i>Int1d</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i>	(name="SLWD3", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")

StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>Double1d</i>	wave (description="Frequency", quantity="GHz")
<i>Double1d</i>	flux (description="Flux Density", quantity="Jy")
<i>Double1d</i>	error (description="Uncertainty", quantity="Jy")
<i>Int1d</i>	mask (description="Mask", quantity="1")
<i>Int1d</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWB2", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")

StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>Double1d</i>	wave (description="Frequency", quantity="GHz")
<i>Double1d</i>	flux (description="Flux Density", quantity="Jy")
<i>Double1d</i>	error (description="Uncertainty", quantity="Jy")
<i>Int1d</i>	mask (description="Mask", quantity="1")
<i>Int1d</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWB3", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")

DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
Double1d	wave (description="Frequency", quantity="GHz")
Double1d	flux (description="Flux Density", quantity="Jy")
Double1d	error (description="Uncertainty", quantity="Jy")
Int1d	mask (description="Mask", quantity="1")
Int1d	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SSWB4", description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	

<i>Double1d</i>	wave (description="Frequency", quantity="GHz")
<i>Double1d</i>	flux (description="Flux Density", quantity="Jy")
<i>Double1d</i>	error (description="Uncertainty", quantity="Jy")
<i>Int1d</i>	mask (description="Mask", quantity="1")
<i>Int1d</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWC2", description="null")
<i>Meta- ta</i>	
<i>DoublePa- rameter</i>	dec (description="Dec pointing for this channel", quantity="deg")
<i>DoublePa- rameter</i>	ra (description="Ra pointing for this channel", quantity="deg")
<i>StringPa- rameter</i>	channelName (description="Channel name", quantity="deg")
<i>DoublePa- rameter</i>	qcResidualPhase (description="The maximum in-band residual phase for a given in- terferogram/spectrum", quantity="deg")
<i>LongPa- rameter</i>	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
<i>Quantifi- ableParam- eter</i>	waveunit (description="null", quantity="deg")
<i>StringPa- rameter</i>	wavedescription (description="Description of WaveColumn", quantity="deg")
<i>DoublePa- rameter</i>	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
<i>DoublePa- rameter</i>	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
<i>DoublePa- rameter</i>	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
<i>DoublePa- rameter</i>	deltaOpd (description="OPD Step Size", quantity="cm")
<i>DoublePa- rameter</i>	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
<i>LongPa- rameter</i>	numFft (description="Number of unique samples in the FFT", quantity="GHz")
<i>LongPa- rameter</i>	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>Double1d</i>	wave (description="Frequency", quantity="GHz")
<i>Double1d</i>	flux (description="Flux Density", quantity="Jy")
<i>Double1d</i>	error (description="Uncertainty", quantity="Jy")
<i>Int1d</i>	mask (description="Mask", quantity="1")
<i>Int1d</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWC3", description="null")

<i>Meta-</i>	
<i>data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Frequency", quantity="GHz")
<i>DoubleId</i>	flux (description="Flux Density", quantity="Jy")
<i>DoubleId</i>	error (description="Uncertainty", quantity="Jy")
<i>IntId</i>	mask (description="Mask", quantity="1")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i>	(name="SSWC4", description="null")
<i>dataset</i>	
<i>Meta-</i>	
<i>data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")

DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
DoubleId	wave (description="Frequency", quantity="GHz")
DoubleId	flux (description="Flux Density", quantity="Jy")
DoubleId	error (description="Uncertainty", quantity="Jy")
IntId	mask (description="Mask", quantity="1")
IntId	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SSWC5", description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")

DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
Double1d	wave (description="Frequency", quantity="GHz")
Double1d	flux (description="Flux Density", quantity="Jy")
Double1d	error (description="Uncertainty", quantity="Jy")
Int1d	mask (description="Mask", quantity="1")
Int1d	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SSWD2", description="null")
Metada- ta	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")

DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
DoubleId	wave (description="Frequency", quantity="GHz")
DoubleId	flux (description="Flux Density", quantity="Jy")
DoubleId	error (description="Uncertainty", quantity="Jy")
IntId	mask (description="Mask", quantity="1")
IntId	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SSWD3", description="null")
Meta- data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
DoubleId	wave (description="Frequency", quantity="GHz")

<i>Double1d</i>	flux (description="Flux Density", quantity="Jy")
<i>Double1d</i>	error (description="Uncertainty", quantity="Jy")
<i>Int1d</i>	mask (description="Mask", quantity="1")
<i>Int1d</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i> <i>dataset</i>	(name="SSWD4", description="null")
<i>Metada- ta</i>	
DoublePa- rameter	dec (description="Dec pointing for this channel", quantity="deg")
DoublePa- rameter	ra (description="Ra pointing for this channel", quantity="deg")
StringPa- rameter	channelName (description="Channel name", quantity="deg")
DoublePa- rameter	qcResidualPhase (description="The maximum in-band residual phase for a given in- terferogram/spectrum", quantity="deg")
LongPa- rameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
Quantifi- ableParam- eter	waveunit (description="null", quantity="deg")
StringPa- rameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoublePa- rameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoublePa- rameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoublePa- rameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoublePa- rameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoublePa- rameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongPa- rameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongPa- rameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>Double1d</i>	wave (description="Frequency", quantity="GHz")
<i>Double1d</i>	flux (description="Flux Density", quantity="Jy")
<i>Double1d</i>	error (description="Uncertainty", quantity="Jy")
<i>Int1d</i>	mask (description="Mask", quantity="1")
<i>Int1d</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i> <i>dataset</i>	(name="SSWD6", description="null")
<i>Metada- ta</i>	

DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by $\pm 2\pi$ ", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency ($1/2(\text{deltaOpd})$)", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
Double1d	wave (description="Frequency", quantity="GHz")
Double1d	flux (description="Flux Density", quantity="Jy")
Double1d	error (description="Uncertainty", quantity="Jy")
Int1d	mask (description="Mask", quantity="1")
Int1d	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SSWE2", description="null")
Meta- data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")

LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>Double1d</i>	wave (description="Frequency", quantity="GHz")
<i>Double1d</i>	flux (description="Flux Density", quantity="Jy")
<i>Double1d</i>	error (description="Uncertainty", quantity="Jy")
<i>Int1d</i>	mask (description="Mask", quantity="1")
<i>Int1d</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWE3", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")

DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
DoubleId	wave (description="Frequency", quantity="GHz")
DoubleId	flux (description="Flux Density", quantity="Jy")
DoubleId	error (description="Uncertainty", quantity="Jy")
IntId	mask (description="Mask", quantity="1")
IntId	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SSWE4", description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")

LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
DoubleId	wave (description="Frequency", quantity="GHz")
DoubleId	flux (description="Flux Density", quantity="Jy")
DoubleId	error (description="Uncertainty", quantity="Jy")
IntId	mask (description="Mask", quantity="1")
IntId	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SSWE5", description="null")
Meta- data	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
DoubleId	wave (description="Frequency", quantity="GHz")
DoubleId	flux (description="Flux Density", quantity="Jy")
DoubleId	error (description="Uncertainty", quantity="Jy")

<i>Int1d</i>	mask (description="Mask", quantity="1")
<i>Int1d</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWF2", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")
DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
<i>Columns</i>	
<i>Double1d</i>	wave (description="Frequency", quantity="GHz")
<i>Double1d</i>	flux (description="Flux Density", quantity="Jy")
<i>Double1d</i>	error (description="Uncertainty", quantity="Jy")
<i>Int1d</i>	mask (description="Mask", quantity="1")
<i>Int1d</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWF3", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel", quantity="deg")

DoubleParameter	ra (description="Ra pointing for this channel", quantity="deg")
StringParameter	channelName (description="Channel name", quantity="deg")
DoubleParameter	qcResidualPhase (description="The maximum in-band residual phase for a given interferogram/spectrum", quantity="deg")
LongParameter	qcPhaseWrap (description="Number of times that in-band phase changes by +/-2pi", quantity="deg")
QuantifiableParameter	waveunit (description="null", quantity="deg")
StringParameter	wavedescription (description="Description of WaveColumn", quantity="deg")
DoubleParameter	actualResolution (description="Unpadded Spectral Resolution", quantity="GHz")
DoubleParameter	maxOpd (description="Maximum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	minOpd (description="Minimum Unpadded Optical Path Difference", quantity="cm")
DoubleParameter	deltaOpd (description="OPD Step Size", quantity="cm")
DoubleParameter	nyquist (description="Spectral Nyquist Frequency (1/2(deltaOpd))", quantity="GHz")
LongParameter	numFft (description="Number of unique samples in the FFT", quantity="GHz")
LongParameter	numFftFull (description="Total number of samples in the padded FFT (same as nFft if no padding)", quantity="GHz")
Columns	
Double1d	wave (description="Frequency", quantity="GHz")
Double1d	flux (description="Flux Density", quantity="Jy")
Double1d	error (description="Uncertainty", quantity="Jy")
Int1d	mask (description="Mask", quantity="1")
Int1d	numScans (description="Number Of Scans", quantity="1")

Chapter 6. SPIRE Calibration History Products

Chapter 6. SPIRE Calibration History Products

Chapter 6. SPIRE Calibration History Products

6.1. SPIRE Calibration History Products

6.1.1. SPIRECAL Product - DPU Counter Reset History Table

<i>product</i> (<i>type="SCalResetHist", description="DPU Counter Reset History Table"</i>)	
<i>Metadata</i>	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument subsystem")
StringParameter	creator (description="Generator of this product")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
StringParameter	version (description="Version")
<i>Columns</i>	
<i>table dataset</i>	(<i>name="table", description="DPU reset times"</i>)
<i>Metadata</i>	
<i>Columns</i>	
<i>LongId</i>	resetTime (description="DPU counter reset time (in CUC format)", quantity="1")
<i>IntId</i>	syncMask (description="Mask to indicates sync between TReset and missed clock tick events.", quantity="1")
	()
<i>composite dataset</i>	Dataset similar to the one above with (<i>name="History", description="History of product"</i>)

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6.1.2. SPIRECAL Product - Telemetry Mask Table

<i>product</i> (<i>type="SCalTelemMask", description="Telemetry Mask Table"</i>)	
<i>Meta-data</i>	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
StringParameter	fileName (description="null")
StringParameter	dependency (description="Keywords on which product depends")
StringParameter	version (description="null")
<i>Columns</i>	
<i>table dataset</i>	(<i>name="NHK", description="null"</i>)
<i>Metadata</i>	
<i>Columns</i>	
<i>StringId</i>	tmParam (description="Telemetry Parameter Name", quantity="1")
<i>BoolId</i>	isUnreliable (description="Unreliable parameter", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (<i>name="CHK", description="null"</i>)
	()
<i>table dataset</i>	Dataset similar to the one above with (<i>name="SMECSCAN", description="null"</i>)
	()
<i>table dataset</i>	Dataset similar to the one above with (<i>name="BSMNOMINAL", description="null"</i>)
	()

<i>table dataset</i>	Dataset similar to the one above with (name="SCUNOMINAL", description="null")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="SMECSELECT", description="null")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="MCUENG", description="null")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="TFCSHK", description="null")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="TFTSSCIENCE", description="null")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="TFTSHK", description="null")

6.2. SPIRE Photometer Calibration Products

6.2.1. SPIRECAL Product - Spire Aperture efficiency product

<i>product (type="SCalPhotApertureEfficiency", description="Spire Aperture efficiency product")</i>	
<i>Metadata</i>	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	author (description="Author of the data")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
StringParameter	fileName (description="null")
StringParameter	version (description="null")
StringParameter	fileOrigin (description="Origin of the data")
<i>Columns</i>	
<i>table dataset</i>	(name="frequency", description="null")
<i>Metadata</i>	
<i>Columns</i>	
<i>DoubleId</i>	frequency (description="null", quantity="GHz")
<i>DoubleId</i>	PSW (description="null", quantity="1")
<i>DoubleId</i>	PMW (description="null", quantity="1")

				<i>DoubleId</i> PLW (description="null", quantity="1")

6.2.2. SPIRECAL Product - PLW Photometer Beam Profile

<i>product (type="SCalPhotBeamProf", description="PLW Photometer Beam Profile")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	dependency (description="Keywords on which product depends")
LongParameter	firstSample (description="null")
LongParameter	lastSample (description="null")
LongParameter	naxis (description="WCS: Number of Axes")
DoubleParameter	crpix1 (description="null")
DoubleParameter	crpix2 (description="null")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
DoubleParameter	crota2 (description="The Rotation angle")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
LongParameter	naxis1 (description="null")
LongParameter	naxis2 (description="null")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
StringParameter	author (description="Author of the Data")
StringParameter	cusMode (description="CUS observation mode")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	instMode (description="Instrument Mode", quantity="deg")
StringParameter	naifId (description="SSO NAIF identifier", quantity="deg")
StringParameter	object (description="Target name", quantity="deg")

StringParameter	observer (description="Observer name", quantity="deg")
StringParameter	obsMode (description="Observation mode name", quantity="deg")
StringParameter	origin (description="Site that created the product", quantity="deg")
StringParameter	pointingMode (description="Pointing mode", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	proposal (description="Proposal name", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	arrayName (description="Name of bolometer array", quantity="deg")
DoubleParameter	wavelength (description="The reference wavelength at which the image is taken", quantity="micrometer")
StringParameter	version (description="null", quantity="micrometer")
StringParameter	dataOrigin (description="Origin of the data", quantity="micrometer")
StringParameter	mapSampling (description="Spatial sampling of map", quantity="micrometer")
DoubleParameter	freqEffPlw (description="Effective frequency at which the measured PLW beam profile applies", quantity="GHz")
DoubleParameter	beamNeptunePlwArc (description="PLW beam area in square arcsec as measured on Neptune", quantity="arcsec ² ")
DoubleParameter	beamNeptunePlwArcErr (description="Error in square arcsec on PLW beam area as measured on Neptune", quantity="arcsec ² ")
DoubleParameter	beamNeptunePlwSr (description="PLW beam area in steradians as measured on Neptune", quantity="sr")
DoubleParameter	alphaNeptunePlw (description="Neptune spectral index used for PLW", quantity="sr")
DoubleParameter	beamPipelinePlwArc (description="PLW beam area in square arcsec for spectral index alpha=-1 (as assumed in pipeline)", quantity="arcsec ² ")
DoubleParameter	beamPipelinePlwSr (description="PLW beam area in steradians for spectral index alpha=-1 (as assumed in pipeline)", quantity="sr")
DoubleParameter	FWHM_majorPlw (description="FWHM of the beam along the major axis", quantity="arcsec")
DoubleParameter	FWHM_minorPlw (description="FWHM of the beam along the minor axis", quantity="arcsec")
DoubleParameter	FWHM_gMeanPlw (description="Geometric mean of the FWHM", quantity="arcsec")
DoubleParameter	FlatteningPlw (description="Flattening of the beam = 1-b/a", quantity="arcsec")
DoubleParameter	AnglePlw (description="Position angle of the major axis with respect to image vertical y-axis", quantity="deg")
StringParameter	fileName (description="null", quantity="deg")
Columns	

<i>array</i>	<i>(description="Image")</i>
<i>dataset</i>	
<i>Metadata</i>	
LongParameter	naxis (description="WCS: Number of Axes")
LongParameter	naxis1 (description="naxis1")
LongParameter	naxis2 (description="naxis2")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
DoubleParameter	equinox (description="WCS: Equinox, unit=Duration")
DoubleParameter	crota2 (description="The Rotation angle")
DoubleParameter	wavelnth (description="The reference wavelength at which the image is taken")
LongParameter	waveunit (description="The unit of the wavelength (In meters to the power of 10)")
<i>Columns</i>	
<i>Double2d</i>	(description="Image", quantity="Jy/beam")

6.2.3. SPIRECAL Product - PMW Photometer Beam Profile

<i>product</i>	<i>(type="SCalPhotBeamProf", description="PMW Photometer Beam Profile")</i>
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	dependency (description="Keywords on which product depends")
LongParameter	firstSample (description="null")
LongParameter	lastSample (description="null")
LongParameter	naxis (description="WCS: Number of Axes")
DoubleParameter	crpix1 (description="null")

DoubleParameter	crpix2 (description="null")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
DoubleParameter	crota2 (description="The Rotation angle")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
LongParameter	naxis1 (description="null")
LongParameter	naxis2 (description="null")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
StringParameter	author (description="Author of the Data")
StringParameter	cusMode (description="CUS observation mode")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	instMode (description="Instrument Mode", quantity="deg")
StringParameter	naifId (description="SSO NAIF identifier", quantity="deg")
StringParameter	object (description="Target name", quantity="deg")
StringParameter	observer (description="Observer name", quantity="deg")
StringParameter	obsMode (description="Observation mode name", quantity="deg")
StringParameter	origin (description="Site that created the product", quantity="deg")
StringParameter	pointingMode (description="Pointing mode", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	proposal (description="Proposal name", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	arrayName (description="Name of bolometer array", quantity="deg")
DoubleParameter	wavelength (description="The reference wavelength at which the image is taken", quantity="micrometer")
StringParameter	version (description="null", quantity="micrometer")
StringParameter	dataOrigin (description="Origin of the data", quantity="micrometer")
StringParameter	mapSampling (description="Spatial sampling of map", quantity="micrometer")
DoubleParameter	freqEffPmw (description="Effective frequency at which the measured PMW beam profile applies", quantity="GHz")
DoubleParameter	beamNeptunePmwArc (description="PMW beam area in square arcsec as measured on Neptune", quantity="arcsec2")

DoubleParameter	beamNeptunePmwArcErr (description="Error in square arcsec on PMW beam area as measured on Neptune", quantity="arcsec2")
DoubleParameter	beamNeptunePmwSr (description="PMW beam area in steradians as measured on Neptune", quantity="sr")
DoubleParameter	alphaNeptunePmw (description="Neptune spectral index used for PMW", quantity="sr")
DoubleParameter	beamPipelinePmwArc (description="PMW beam area in square arcsec for spectral index alpha=-1 (as assumed in pipeline)", quantity="arcsec2")
DoubleParameter	beamPipelinePmwSr (description="PMW beam area in steradians for spectral index alpha=-1 (as assumed in pipeline)", quantity="sr")
DoubleParameter	FWHM_majorPmw (description="FWHM of the beam along the major axis", quantity="arcsec")
DoubleParameter	FWHM_minorPmw (description="FWHM of the beam along the minor axis", quantity="arcsec")
DoubleParameter	FWHM_gMeanPmw (description="Geometric mean of the FWHM", quantity="arcsec")
DoubleParameter	FlatteningPmw (description="Flattening of the beam = 1-b/a", quantity="arcsec")
DoubleParameter	AnglePmw (description="Position angle of the major axis with respect to image vertical y-axis", quantity="deg")
StringParameter	fileName (description="null", quantity="deg")
<i>Columns</i>	
<i>array dataset</i>	(description="Image")
<i>Metadata</i>	
LongParameter	naxis (description="WCS: Number of Axes")
LongParameter	naxis1 (description="naxis1")
LongParameter	naxis2 (description="naxis2")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
DoubleParameter	equinox (description="WCS: Equinox, unit=Duration")
DoubleParameter	crota2 (description="The Rotation angle")
DoubleParameter	wavelnth (description="The reference wavelength at which the image is taken")
LongParameter	waveunit (description="The unit of the wavelength (In meters to the power of 10)")
<i>Columns</i>	
<i>Double2d</i>	(description="Image", quantity="Jy/beam")

6.2.4. SPIRECAL Product - PSW Photometer Beam Profile

<i>product (type="SCalPhotBeamProf", description="PSW Photometer Beam Profile")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	dependency (description="Keywords on which product depends")
LongParameter	firstSample (description="null")
LongParameter	lastSample (description="null")
LongParameter	naxis (description="WCS: Number of Axes")
DoubleParameter	crpix1 (description="null")
DoubleParameter	crpix2 (description="null")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
DoubleParameter	crota2 (description="The Rotation angle")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
LongParameter	naxis1 (description="null")
LongParameter	naxis2 (description="null")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
StringParameter	author (description="Author of the Data")
StringParameter	cusMode (description="CUS observation mode")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
StringParameter	instMode (description="Instrument Mode", quantity="deg")
StringParameter	naifId (description="SSO NAIF identifier", quantity="deg")
StringParameter	object (description="Target name", quantity="deg")
StringParameter	observer (description="Observer name", quantity="deg")
StringParameter	obsMode (description="Observation mode name", quantity="deg")

StringParameter	origin (description="Site that created the product", quantity="deg")
StringParameter	pointingMode (description="Pointing mode", quantity="deg")
DoubleParameter	posAngle (description="Position Angle of pointing", quantity="deg")
StringParameter	proposal (description="Proposal name", quantity="deg")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
StringParameter	telescope (description="Name of telescope", quantity="deg")
StringParameter	arrayName (description="Name of bolometer array", quantity="deg")
DoubleParameter	wavelength (description="The reference wavelength at which the image is taken", quantity="micrometer")
StringParameter	version (description="null", quantity="micrometer")
StringParameter	dataOrigin (description="Origin of the data", quantity="micrometer")
StringParameter	mapSampling (description="Spatial sampling of map", quantity="micrometer")
DoubleParameter	freqEffPsw (description="Effective frequency at which the measured PSW beam profile applies", quantity="GHz")
DoubleParameter	beamNeptunePswArc (description="PSW beam area in square arcsec as measured on Neptune", quantity="arcsec ² ")
DoubleParameter	beamNeptunePswArcErr (description="Error in square arcsec on PSW beam area as measured on Neptune", quantity="arcsec ² ")
DoubleParameter	beamNeptunePswSr (description="PSW beam area in steradians as measured on Neptune", quantity="sr")
DoubleParameter	alphaNeptunePsw (description="Neptune spectral index used for PSW", quantity="sr")
DoubleParameter	beamPipelinePswArc (description="PSW beam area in square arcsec for spectral index alpha=-1 (as assumed in pipeline)", quantity="arcsec ² ")
DoubleParameter	beamPipelinePswSr (description="PSW beam area in steradians for spectral index alpha=-1 (as assumed in pipeline)", quantity="sr")
DoubleParameter	FWHM_majorPsw (description="FWHM of the beam along the major axis", quantity="arcsec")
DoubleParameter	FWHM_minorPsw (description="FWHM of the beam along the minor axis", quantity="arcsec")
DoubleParameter	FWHM_gMeanPsw (description="Geometric mean of the FWHM", quantity="arcsec")
DoubleParameter	FlatteningPsw (description="Flattening of the beam = 1-b/a", quantity="arcsec")
DoubleParameter	AnglePsw (description="Position angle of the major axis with respect to image vertical y-axis", quantity="deg")
StringParameter	fileName (description="null", quantity="deg")
<i>Columns</i>	
<i>array dataset</i>	(description="Image")
<i>Metadata</i>	

LongParameter	naxis (description="WCS: Number of Axes")
LongParameter	naxis1 (description="naxis1")
LongParameter	naxis2 (description="naxis2")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
DoubleParameter	equinox (description="WCS: Equinox, unit=Duration")
DoubleParameter	crota2 (description="The Rotation angle")
DoubleParameter	wavelnth (description="The reference wavelength at which the image is taken")
LongParameter	waveunit (description="The unit of the wavelength (In meters to the power of 10)")
<i>Columns</i>	
<i>Double2d</i>	(description="Image", quantity="Jy/beam")

6.2.5. SPIRECAL Product - Photometer Bolometer Parameter Table

<i>product (type="SCalPhotBolPar", description="Photometer Bolometer Parameter Table")</i>	
<i>Metadata</i>	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
StringParameter	fileName (description="null")
StringParameter	version (description="null")
<i>Columns</i>	
<i>table dataset</i>	(name="PSW", description="Table for PSW array")
<i>Metadata</i>	
DoubleParameter	tempT0 (description="Reference Temperature for Bolometer Thermal Conductivity T0", quantity="K")

Columns	
StringId	names (description="Channel names", quantity="1")
DoubleId	loadResPos (description="Load resistance positive bias resistor", quantity="Ohm")
DoubleId	loadResNeg (description="Load resistance negative bias resistor", quantity="Ohm")
DoubleId	resR0 (description="Bolometer Electric Resistance at Temperature de", quantity="Ohm")
DoubleId	delta (description="Reference Temperature for Bolometer Resistance", quantity="K")
DoubleId	capac (description="Electrical Capacitance of Cable", quantity="F")
DoubleId	condG0 (description="Bolometer Thermal Conductivity at Temperature T", quantity="W K-1")
DoubleId	beta (description="Exponent for Temperature evolution of Bolometer Thermal Conductivity", quantity="1")
	()
table dataset	Dataset similar to the one above with (name="PMW", description="Table for PMW array")
	()
table dataset	Dataset similar to the one above with (name="PLW", description="Table for PLW array")
	()
table dataset	Dataset similar to the one above with (name="PTC", description="Table for PTC array")

6.2.6. SPIRECAL Product - Photometer BSM Operations Table

<i>product (type="SCalPhotBsmOps", description="Photometer BSM Operations Table")</i>	
Metadata	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
StringParameter	fileName (description="null")
StringParameter	dependency (description="Keywords on which product depends")
StringParameter	version (description="null")
DoubleParameter	chopMaxSpeed (description="Speed limit for stabilisation in chop")
DoubleParameter	jiggMaxSpeed (description="Speed limit for stabilisation in jigg")

<i>Columns</i>	
<i>table dataset</i>	(name="POF1", description="Simple Chopping")
<i>Metadata</i>	
StringParameter	instMode (description="null")
<i>Columns</i>	
StringId	chopBeamId (description="Chopper Beam Identifier", quantity="1")
IntId	chopSens (description="Target sensor signal in chop direction", quantity="1")
IntId	chopHiTol (description="Positive tolerance in chop sensor signal", quantity="1")
IntId	chopLoTol (description="Negative tolerance in chop sensor signa", quantity="1")
IntId	jiggId (description="Jiggle Position Identifier", quantity="1")
IntId	jiggSens (description="Target sensor signal in jiggle direction", quantity="1")
IntId	jiggHiTol (description="Positive tolerance in jiggle sensor signal", quantity="1")
IntId	jiggLoTol (description="Negative tolerance in jiggle sensor signal", quantity="1")

6.2.7. SPIRECAL Product - Photometer BSM Position Table

<i>product (type="SCalPhotBsmPos", description="Photometer BSM Position Table")</i>	
<i>Metadata</i>	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
StringParameter	fileName (description="null")
StringParameter	version (description="null")
LongParameter	chopRestPos (description="BSM rest position in chop direction (Y-axis)")
LongParameter	chopSoftLimit1 (description="BSM soft lower limit in chop direction")
LongParameter	chopSoftLimit2 (description="BSM soft upper limit in chop direction")
LongParameter	chopHardLimit1 (description="BSM hard lower limit in chop direction")
LongParameter	chopHardLimit2 (description="BSM hard upper limit in chop direction")
LongParameter	jiggRestPos (description="BSM rest position in jiggle direction (Z-axis)")
LongParameter	jiggSoftLimit1 (description="BSM soft lower limit in jiggle direction")

LongParameter	jiggSoftLimit2 (description="BSM soft upper limit in jiggle direction")
LongParameter	jiggHardLimit1 (description="BSM hard lower limit in jiggle direction")
LongParameter	jiggHardLimit2 (description="BSM hard upper limit in jiggle direction")
Columns	
table dataset	(name="table", description="BSM angle versus chop and jiggle sensor value")
Metadata	
Columns	
DoubleId	yangle (description="Angle in spacecraft Y-direction", quantity="arcsec")
DoubleId	yangleError (description="Error in Y-angl", quantity="arcsec")
DoubleId	zangle (description="Angle in spacecraft Z-direction", quantity="arcsec")
DoubleId	zangleError (description="Error in Z-angle", quantity="arcsec")
IntId	chopSensor (description="Sensor signal in chop direction (Y-axis)", quantity="1")
IntId	jiggSensor (description="Sensor signal in jiggle direction (Z-axis)", quantity="1")

6.2.8. SPIRECAL Product - Photometer Channel Gain Table

<i>product (type="SCalPhotChanGain", description="Photometer Channel Gain Table")</i>	
Metadata	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
StringParameter	fileName (description="null")
StringParameter	version (description="null")
DoubleParameter	refBiasFreq (description="Reference bias frequency", quantity="Hz")
DoubleParameter	freqDepPhot (description="Frequency dependency parameter", quantity="s2")
DoubleParameter	freqDepPtc (description="Frequency dependency parameter for TC", quantity="s2")
Columns	
table dataset	(name="PSW", description="Table for PSW array")

<i>Metadata</i>	
<i>Columns</i>	
<i>StringId</i>	names (description="Channel names", quantity="1")
<i>DoubleId</i>	totGain (description="LIA plus amplifier gain", quantity="1")
<i>DoubleId</i>	jfetGain (description="JFET Gain", quantity="1")
()	
<i>table dataset</i>	Dataset similar to the one above with (name="PMW", description="Table for PMW array")
()	
<i>table dataset</i>	Dataset similar to the one above with (name="PLW", description="Table for PLW array")
()	
<i>table dataset</i>	Dataset similar to the one above with (name="PTC", description="Table for PTC array")

6.2.9. SPIRECAL Product - Photometer Channel Mask Table

<i>product (type="SCalPhotChanMask", description="Photometer Channel Mask Table")</i>	
<i>Metadata</i>	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
StringParameter	fileName (description="null")
StringParameter	dependency (description="Keywords on which product depends")
StringParameter	version (description="null")
<i>Columns</i>	
<i>table dataset</i>	(name="PSW", description="Table for PSW array")
<i>Metadata</i>	
<i>Columns</i>	
<i>StringId</i>	names (description="Channel names", quantity="1")
<i>BoolId</i>	isDead (description="Dead Channels", quantity="1")
<i>BoolId</i>	isNoisy (description="Noisy Channels", quantity="1")
<i>BoolId</i>	isSlow (description="Slow Channels", quantity="1")
()	

<i>table dataset</i>	Dataset similar to the one above with (name="PMW", description="Table for PMW array")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="PLW", description="Table for PLW array")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="PTC", description="Table for PTC array")

6.2.10. SPIRECAL Product - Photometer Channel Noise Table

<i>product (type="SCalPhotChanNoise", description="Photometer Channel Noise Table")</i>	
<i>Metadata</i>	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	biasMode (description="null")
DoubleParameter	biasFreq (description="Bias frequency", quantity="Hz")
StringParameter	author (description="Author of the data", quantity="Hz")
StringParameter	modelName (description="Model name attached to this product", quantity="Hz")
StringParameter	formatVersion (description="Version of product format", quantity="Hz")
StringParameter	type (description="Product Type Identification", quantity="Hz")
StringParameter	description (description="Name of this product", quantity="Hz")
StringParameter	fileName (description="null", quantity="Hz")
DoubleParameter	plwBiasAmpl (description="PLW bias amplitude", quantity="V")
DoubleParameter	pmwBiasAmpl (description="PMW bias amplitude", quantity="V")
DoubleParameter	pswBiasAmpl (description="PSW bias amplitude", quantity="V")
StringParameter	dependency (description="Keywords on which product depends", quantity="V")
StringParameter	version (description="null", quantity="V")
DoubleParameter	biasAmpl (description="Detector bias amplitude", quantity="V")
DoubleParameter	maxFreq (description="null", quantity="V")
DoubleParameter	minFreq (description="null", quantity="V")
DoubleParameter	numSpec (description="Number of coadded spectra", quantity="V")

LongParameter	numSpec_ILLEGAL_FORMAT (description="null", quantity="V")
StringParameter	fileOrigin (description="Origin of the data", quantity="V")
Columns	
table dataset	(name="PSW", description="Channel table for PSW array")
Metadata	
Columns	
Double1d	frequency (description="Frequency (Hz)", quantity="Hz")
Double1d	PSWA1 (description="null", quantity="Jy Hz-1:2")
Double1d	PSWA2 (description="null", quantity="Jy Hz-1:2")
Double1d	PSWA3 (description="null", quantity="Jy Hz-1:2")
Double1d	PSWA4 (description="null", quantity="Jy Hz-1:2")
Double1d	PSWA5 (description="null", quantity="Jy Hz-1:2")
Double1d	PSWA6 (description="null", quantity="Jy Hz-1:2")
Double1d	PSWA7 (description="null", quantity="Jy Hz-1:2")
Double1d	PSWA8 (description="null", quantity="Jy Hz-1:2")
Double1d	PSWA9 (description="null", quantity="Jy Hz-1:2")
Double1d	PSWA10 (description="null", quantity="Jy Hz-1:2")
Double1d	PSWA11 (description="null", quantity="Jy Hz-1:2")
Double1d	PSWA12 (description="null", quantity="Jy Hz-1:2")
Double1d	PSWA13 (description="null", quantity="Jy Hz-1:2")
Double1d	PSWA14 (description="null", quantity="Jy Hz-1:2")
Double1d	PSWA15 (description="null", quantity="Jy Hz-1:2")
Double1d	PSWB1 (description="null", quantity="Jy Hz-1:2")
Double1d	PSWB2 (description="null", quantity="Jy Hz-1:2")
Double1d	PSWB3 (description="null", quantity="Jy Hz-1:2")
Double1d	PSWB4 (description="null", quantity="Jy Hz-1:2")
Double1d	PSWB5 (description="null", quantity="Jy Hz-1:2")
Double1d	PSWB6 (description="null", quantity="Jy Hz-1:2")
Double1d	PSWB7 (description="null", quantity="Jy Hz-1:2")
Double1d	PSWB8 (description="null", quantity="Jy Hz-1:2")
Double1d	PSWB9 (description="null", quantity="Jy Hz-1:2")
Double1d	PSWB10 (description="null", quantity="Jy Hz-1:2")
Double1d	PSWB11 (description="null", quantity="Jy Hz-1:2")
Double1d	PSWB12 (description="null", quantity="Jy Hz-1:2")
Double1d	PSWB13 (description="null", quantity="Jy Hz-1:2")
Double1d	PSWB14 (description="null", quantity="Jy Hz-1:2")
Double1d	PSWB15 (description="null", quantity="Jy Hz-1:2")
Double1d	PSWB16 (description="null", quantity="Jy Hz-1:2")
Double1d	PSWC1 (description="null", quantity="Jy Hz-1:2")
Double1d	PSWC2 (description="null", quantity="Jy Hz-1:2")
Double1d	PSWC3 (description="null", quantity="Jy Hz-1:2")

<i>Double1d</i>	PSWC4 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWC5 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWC6 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWC7 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWC8 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWC9 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWC10 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWC11 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWC12 (description="null", quantity="V Hz-1:2")
<i>Double1d</i>	PSWC13 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWC14 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWC15 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWD1 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWD2 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWD3 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWD4 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWD5 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWD6 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWD7 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWD8 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWD9 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWD10 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWD11 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWD12 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWD13 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWD14 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWD15 (description="null", quantity="V Hz-1:2")
<i>Double1d</i>	PSWD16 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWE1 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWE2 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWE3 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWE4 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWE5 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWE6 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWE7 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWE8 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWE9 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWE10 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWE11 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWE12 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWE13 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWE14 (description="null", quantity="Jy Hz-1:2")

<i>Double1d</i>	PSWE15 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWF1 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWF2 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWF3 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWF4 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWF5 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWF6 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWF7 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWF8 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWF9 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWF10 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWF11 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWF12 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWF13 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWF14 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWF15 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWF16 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWG1 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWG2 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWG3 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWG4 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWG5 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWG6 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWG7 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWG8 (description="null", quantity="V Hz-1:2")
<i>Double1d</i>	PSWG9 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWG10 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWG11 (description="null", quantity="V Hz-1:2")
<i>Double1d</i>	PSWG12 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWG13 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWG14 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWG15 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWH1 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWH2 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWH3 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWH4 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWH5 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWH6 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWH7 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWH8 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWH9 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWH10 (description="null", quantity="Jy Hz-1:2")

<i>Double1d</i>	PSWH11 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWH12 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWH13 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWH14 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWH15 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWH16 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWJ1 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWJ2 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWJ3 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWJ4 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWJ5 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWJ6 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWJ7 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWJ8 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWJ9 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWJ10 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWJ11 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWJ12 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWJ13 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWJ14 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWJ15 (description="null", quantity="Jy Hz-1:2")
<i>Double1d</i>	PSWDP1 (description="null", quantity="V Hz-1:2")
<i>Double1d</i>	PSWDP2 (description="null", quantity="V Hz-1:2")
<i>Double1d</i>	PSWR1 (description="null", quantity="V Hz-1:2")
<i>Double1d</i>	PSWT1 (description="null", quantity="V Hz-1:2")
<i>Double1d</i>	PSWT2 (description="null", quantity="V Hz-1:2")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="PMW", description="Channel table for PMW array")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="PLW", description="Channel table for PLW array")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="PTC", description="Channel table for PTC array")

6.2.11. SPIRECAL Product - Photometer Channel Number Mapping Table

<i>product</i> (type="SCalPhotChanNum", description="Photometer Channel Number Mapping Table")	
<i>Metadata</i>	
StringParameter	instrument (description="Instrument attached to this product")

StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
StringParameter	fileName (description="null")
StringParameter	version (description="null")
<i>Columns</i>	
<i>table dataset</i>	(name="PSW", description="Table for PSW array")
<i>Metadata</i>	
<i>Columns</i>	
<i>StringId</i>	names (description="Channel names", quantity="1")
<i>IntId</i>	fullChannel (description="Full Channel Number", quantity="1")
<i>IntId</i>	indivChannel (description="Individual Channel Number", quantity="1")
<i>BoolId</i>	isAligned (description="Aligned Channels", quantity="1")
<i>IntId</i>	jfetGroup (description="JFET group", quantity="1")
<i>StringId</i>	jfetMembrane (description="JFET membrane", quantity="1")
<i>IntId</i>	liaBoard (description="LIA board", quantity="1")
<i>IntId</i>	adcChannel (description="ADC channel", quantity="1")
<i>BoolId</i>	isConnected (description="Connected Channels", quantity="1")
<i>BoolId</i>	isBolometer (description="Bolometer Channels", quantity="1")
<i>BoolId</i>	isThermistor (description="Thermistor Channels", quantity="1")
<i>BoolId</i>	isResistor (description="Resistor Channels", quantity="1")
<i>BoolId</i>	isDark (description="Dark Channels", quantity="1")
<i>BoolId</i>	isPtc (description="PTC Channels", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="PMW", description="Table for PMW array")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="PLW", description="Table for PLW array")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="PTC", description="Table for PTC array")

6.2.12. SPIRECAL Product - Photometer Channel Relative Gain Table

<i>product (type="SCalPhotChanRelGain", description="Photometer Channel Relative Gain Table")</i>	
<i>Metadata</i>	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
DateParameter	respControlStamp (description="Responsivity calibration product control date stamp")
StringParameter	fileName (description="null")
StringParameter	version (description="null")
<i>Columns</i>	
<i>table dataset</i>	(name="PSW", description="Table for PSW array")
<i>Metadata</i>	
<i>Columns</i>	
<i>StringId</i>	names (description="Channel names", quantity="1")
<i>DoubleId</i>	relGain (description="Relative gains for extended emission", quantity="1")
<i>DoubleId</i>	relGainErr (description="Error of relative gain", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="PMW", description="Table for PMW array")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="PLW", description="Table for PLW array")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="PTC", description="Table for PTC array")

6.2.13. SPIRECAL Product - Photometer Channel Time Constant Table

<i>product (type="SCalPhotChanTimeConst", description="Photometer Channel Time Constant Table")</i>	
<i>Metadata</i>	
StringParameter	instrument (description="Instrument attached to this product")

StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
StringParameter	fileName (description="null")
StringParameter	version (description="null")
Columns	
table dataset	(name="PSW", description="Table for PSW array")
Metadata	
Columns	
StringId	names (description="Channel names", quantity="1")
DoubleId	timeConst (description="Detector time constant", quantity="s")
DoubleId	error (description="Error on time constant", quantity="s")
DoubleId	slowTimeConst (description="the slow detector time constant", quantity="s")
DoubleId	slowTimeConstError (description="Error in the slow detector time constant", quantity="s")
DoubleId	amplitude (description="time constant amplitude factor", quantity="none")
DoubleId	amplitudeError (description="Error in time constant amplitude factor", quantity="none")
	()
table dataset	Dataset similar to the one above with (name="PMW", description="Table for PMW array")
	()
table dataset	Dataset similar to the one above with (name="PLW", description="Table for PLW array")
	()
table dataset	Dataset similar to the one above with (name="PTC", description="Table for PTC array")

6.2.14. SPIRECAL Product - Photometer Channel Time Offset Table

<i>product (type="SCalPhotChanTimeOff", description="Photometer Channel Time Offset Table")</i>	
Metadata	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")

DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
StringParameter	fileName (description="null")
StringParameter	version (description="null")
Columns	
table dataset	(name="PSW", description="Table for PSW array")
Metadata	
Columns	
StringId	names (description="Channel names", quantity="1")
DoubleId	offsetSingle (description="Time offset relative to single array readout", quantity="s")
DoubleId	offsetFull (description="Time offset relative to full array readout", quantity="s")
	()
table dataset	Dataset similar to the one above with (name="PMW", description="Table for PMW array")
	()
table dataset	Dataset similar to the one above with (name="PLW", description="Table for PLW array")
	()
table dataset	Dataset similar to the one above with (name="PTC", description="Table for PTC array")

6.2.15. SPIRECAL Product - SPIRE aperture correction product

<i>product (type="SCalPhotColorCorrAperture", description="SPIRE aperture correction product")</i>	
Metadata	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	author (description="Author of the Data")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")

StringParameter	fileName (description="Name of file when exported")
StringParameter	dependency (description="Keywords on which product depends")
StringParameter	version (description="null")
StringParameter	dataOrigin (description="Origin of the data")
StringParameter	apertureCorrectionType (description="Aperture correction type (with/without background)")
Columns	
table dataset	(name="alpha", description="Aperture Correction including background (Spectral Index)")
Metadata	
Columns	
FloatId	alpha (description="null", quantity="none")
DoubleId	PSW (description="null", quantity="none")
DoubleId	PMW (description="null", quantity="none")
DoubleId	PLW (description="null", quantity="none")

6.2.16. SPIRECAL Product - SPIRE aperture correction product

<i>product (type="SCalPhotColorCorrAperture", description="SPIRE aperture correction product")</i>	
Metadata	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	author (description="Author of the Data")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
StringParameter	fileName (description="Name of file when exported")
StringParameter	dependency (description="Keywords on which product depends")
StringParameter	version (description="null")
StringParameter	dataOrigin (description="Origin of the data")
StringParameter	apertureCorrectionType (description="Aperture correction type (with/without background)")
Columns	
table dataset	(name="alpha", description="Aperture Correction without background (Spectral Index)")
Metadata	
Columns	

	<i>Float1d</i>	alpha (description="null", quantity="none")
	<i>Double1d</i>	PSW (description="null", quantity="none")
	<i>Double1d</i>	PMW (description="null", quantity="none")
	<i>Double1d</i>	PLW (description="null", quantity="none")

6.2.17. SPIRECAL Product - SPIRE beam corrections with spectral index and temperature product

<i>product (type="SCalPhotColorCorrBeam", description="SPIRE beam corrections with spectral index and temperature product")</i>	
<i>Meta-data</i>	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	author (description="Author of the Data")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
StringParameter	fileName (description="Name of file when exported")
StringParameter	version (description="null")
DoubleParameter	beamPipelinePswSr (description="PSW beam area in steradians for spectral index alpha=-1 (as assumed in pipeline)", quantity="sr")
DoubleParameter	beamPipelinePswArc (description="PSW beam area in square arcsec for spectral index alpha=-1 (as assumed in pipeline)", quantity="arcsec2")
DoubleParameter	beamPipelinePmwSr (description="PMW beam area in steradians for spectral index alpha=-1 (as assumed in pipeline)", quantity="sr")
DoubleParameter	beamPipelinePmwArc (description="PMW beam area in square arcsec for spectral index alpha=-1 (as assumed in pipeline)", quantity="arcsec2")
DoubleParameter	beamPipelinePlwSr (description="PLW beam area in steradians for spectral index alpha=-1 (as assumed in pipeline)", quantity="sr")

DoubleParameter	beamPipelinePlwArc (description="PLW beam area in square arcsec for spectral index alpha=-1 (as assumed in pipeline)", quantity="arcsec2")
StringParameter	dataOrigin (description="Origin of the data", quantity="arcsec2")
Columns	
table dataset	(name="alpha", description="Beam Colour Correction (Spectral Index)")
Metadata	
Columns	
FloatId	alpha (description="null", quantity="none")
FloatId	PSW (description="null", quantity="none")
FloatId	PMW (description="null", quantity="none")
FloatId	PLW (description="null", quantity="none")
	()
table dataset	Dataset similar to the one above with (name="beta_0_00", description="Beam Colour Correction (Modified Black Body, beta=0.00)")
	()
table dataset	Dataset similar to the one above with (name="beta_0_50", description="Beam Colour Correction (Modified Black Body, beta=0.50)")
	()
table dataset	Dataset similar to the one above with (name="beta_1_00", description="Beam Colour Correction (Modified Black Body, beta=1.00)")
	()
table dataset	Dataset similar to the one above with (name="beta_1_25", description="Beam Colour Correction (Modified Black Body, beta=1.25)")
	()
table dataset	Dataset similar to the one above with (name="beta_1_50", description="Beam Colour Correction (Modified Black Body, beta=1.50)")
	()
table dataset	Dataset similar to the one above with (name="beta_1_75", description="Beam Colour Correction (Modified Black Body, beta=1.75)")
	()
table dataset	Dataset similar to the one above with (name="beta_2_00", description="Beam Colour Correction (Modified Black Body, beta=2.00)")
	()
table dataset	Dataset similar to the one above with (name="beta_2_50", description="Beam Colour Correction (Modified Black Body, beta=2.50)")
	()
table dataset	Dataset similar to the one above with (name="beta_3_00", description="Beam Colour Correction (Modified Black Body, beta=3.00)")

6.2.18. SPIRECAL Product - Spire-HFI Cross-calibration color correction product

<i>product (type="SCalPhotColorCorrHfi", description="Spire-HFI Cross-calibration color correction product")</i>			
<i>Metadata</i>			
StringParameter	instrument	(description="Instrument attached to this product")	
StringParameter	creator	(description="Generator of this product")	
DateParameter	creationDate	(description="Creation date of this product")	
DateParameter	startDate	(description="Start date of this product")	
DateParameter	endDate	(description="End date of this product")	
StringParameter	modelName	(description="Model name attached to this product")	
StringParameter	formatVersion	(description="Version of product format")	
StringParameter	type	(description="Product Type Identification")	
StringParameter	description	(description="Name of this product")	
StringParameter	fileName	(description="null")	
StringParameter	version	(description="null")	
StringParameter	dataOrigin	(description="Origin of the data")	
DoubleParameter	gamma	(description="Exponent describing FWHM dependence on frequency")	
DoubleParameter	beta	(description="Modified black-body spectral index used")	
<i>Columns</i>			
<i>table dataset (name="colorCorr", description="null")</i>			
<i>Metadata</i>			
<i>Columns</i>			
	<i>DoubleId</i>	Temperature	(description="null", quantity="K")
	<i>DoubleId</i>	ratio545_857	(description="null", quantity="1")
	<i>DoubleId</i>	k545toPLW	(description="null", quantity="1")
	<i>DoubleId</i>	k857toPMW	(description="null", quantity="1")
	<i>DoubleId</i>	k857toPSW	(description="null", quantity="1")

6.2.19. SPIRECAL Product - SPIRE Color Corrections product for extended sources

<i>product (type="SCalPhotColorCorrK", description="SPIRE Color Corrections product for extended sources")</i>			
<i>Meta-data</i>			
StringParameter	instrument	(description="Instrument attached to this product")	
StringParameter	creator	(description="Generator of this product")	

DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
StringParameter	fileName (description="Name of file when exported")
StringParameter	dependency (description="Keywords on which product depends")
StringParameter	version (description="null")
StringParameter	correctionSourceType (description="Type of colour correction (point or extended)")
<i>Columns</i>	
<i>table dataset</i>	(name="alpha", description="Extended Source Colour Correction (Spectral Index)")
<i>Metadata</i>	
<i>Columns</i>	
<i>DoubleId</i>	alpha (description="null", quantity="1")
<i>DoubleId</i>	PSW (description="null", quantity="1")
<i>DoubleId</i>	PMW (description="null", quantity="1")
<i>DoubleId</i>	PLW (description="null", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="beta_0_00", description="Extended Source Colour Correction (Modified Black Body, beta=0.00)")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="beta_0_50", description="Extended Source Colour Correction (Modified Black Body, beta=0.50)")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="beta_1_00", description="Extended Source Colour Correction (Modified Black Body, beta=1.00)")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="beta_1_25", description="Extended Source Colour Correction (Modified Black Body, beta=1.25)")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="beta_1_50", description="Extended Source Colour Correction (Modified Black Body, beta=1.50)")

	()
<i>table dataset</i>	Dataset similar to the one above with (name="beta_1_75", description="Extended Source Colour Correction (Modified Black Body, beta=1.75)")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="beta_2_00", description="Extended Source Colour Correction (Modified Black Body, beta=2.00)")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="beta_2_50", description="Extended Source Colour Correction (Modified Black Body, beta=2.50)")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="beta_3_00", description="Extended Source Colour Correction (Modified Black Body, beta=3.00)")

6.2.20. SPIRECAL Product - SPIRE Color Corrections product for point sources

<i>product (type="SCalPhotColorCorrK", description="SPIRE Color Corrections product for point sources")</i>	
<i>Meta-data</i>	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	author (description="Author of the Data")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
StringParameter	fileName (description="Name of file when exported")
StringParameter	dependency (description="Keywords on which product depends")
StringParameter	version (description="null")

StringParameter	dataOrigin (description="Origin of the data")
StringParameter	correctionSourceType (description="Type of colour correction (point or extended)")
Columns	
table dataset	(name="alpha", description="Point Source Colour Correction (Spectral Index)")
Metadata	
Columns	
DoubleId	alpha (description="null", quantity="1")
DoubleId	PSW (description="null", quantity="1")
DoubleId	PMW (description="null", quantity="1")
DoubleId	PLW (description="null", quantity="1")
	()
table dataset	Dataset similar to the one above with (name="beta_0_00", description="Point Source Colour Correction (Modified Black Body, beta=0.00)")
	()
table dataset	Dataset similar to the one above with (name="beta_0_50", description="Point Source Colour Correction (Modified Black Body, beta=0.50)")
	()
table dataset	Dataset similar to the one above with (name="beta_1_00", description="Point Source Colour Correction (Modified Black Body, beta=1.00)")
	()
table dataset	Dataset similar to the one above with (name="beta_1_25", description="Point Source Colour Correction (Modified Black Body, beta=1.25)")
	()
table dataset	Dataset similar to the one above with (name="beta_1_50", description="Point Source Colour Correction (Modified Black Body, beta=1.50)")
	()
table dataset	Dataset similar to the one above with (name="beta_1_75", description="Point Source Colour Correction (Modified Black Body, beta=1.75)")
	()
table dataset	Dataset similar to the one above with (name="beta_2_00", description="Point Source Colour Correction (Modified Black Body, beta=2.00)")
	()
table dataset	Dataset similar to the one above with (name="beta_2_50", description="Point Source Colour Correction (Modified Black Body, beta=2.50)")
	()
table dataset	Dataset similar to the one above with (name="beta_3_00", description="Point Source Colour Correction (Modified Black Body, beta=3.00)")

6.2.21. SPIRECAL Product - Photometer Detector Angular Offset Table

product (type="SCalPhotDetAngOff", description="Photometer Detector Angular Offset Table")

<i>Metadata</i>	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
StringParameter	fileName (description="null")
StringParameter	aperture (description="null")
StringParameter	dependency (description="Keywords on which product depends")
StringParameter	version (description="null")
<i>Columns</i>	
<i>table dataset</i>	(name="PSW", description="Table for PSW array")
<i>Metadata</i>	
<i>Columns</i>	
<i>StringId</i>	names (description="Channel names", quantity="1")
<i>DoubleId</i>	yangle (description="Angular offset in Y-direction", quantity="arcsec")
<i>DoubleId</i>	yangleError (description="Error on angular offset in Y-direction", quantity="arcsec")
<i>DoubleId</i>	zangle (description="Angular offset in Z-direction", quantity="arcsec")
<i>DoubleId</i>	zangleError (description="Error on angular offset in Z-direction", quantity="arcsec")
<i>StringId</i>	aperture (description="Detector aperture", quantity="none")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="PMW", description="Table for PMW array")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="PLW", description="Table for PLW array")

6.2.22. SPIRECAL Product - Photometer Electrical Crosstalk Table

<i>product (type="SCalPhotElecCross", description="Photometer Electrical Crosstalk Table")</i>	
<i>Metadata</i>	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")

DateParameter	endDate (description="End date of this product")
StringParameter	author (description="Author of the data")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
StringParameter	fileName (description="null")
StringParameter	version (description="null")
StringParameter	fileOrigin (description="Origin of the data")
Columns	
table dataset	(name="PSW", description="Table for PSW array")
Metadata	
Columns	
String1d	names (description="Channel names", quantity="1")
Double1d	PSWA1 (description="Crosstalk values", quantity="1")
Double1d	PSWA2 (description="Crosstalk values", quantity="1")
Double1d	PSWA3 (description="Crosstalk values", quantity="1")
Double1d	PSWA4 (description="Crosstalk values", quantity="1")
Double1d	PSWA5 (description="Crosstalk values", quantity="1")
Double1d	PSWA6 (description="Crosstalk values", quantity="1")
Double1d	PSWA7 (description="Crosstalk values", quantity="1")
Double1d	PSWA8 (description="Crosstalk values", quantity="1")
Double1d	PSWA9 (description="Crosstalk values", quantity="1")
Double1d	PSWA10 (description="Crosstalk values", quantity="1")
Double1d	PSWA11 (description="Crosstalk values", quantity="1")
Double1d	PSWA12 (description="Crosstalk values", quantity="1")
Double1d	PSWA13 (description="Crosstalk values", quantity="1")
Double1d	PSWA14 (description="Crosstalk values", quantity="1")
Double1d	PSWA15 (description="Crosstalk values", quantity="1")
Double1d	PSWB1 (description="Crosstalk values", quantity="1")
Double1d	PSWB2 (description="Crosstalk values", quantity="1")
Double1d	PSWB3 (description="Crosstalk values", quantity="1")
Double1d	PSWB4 (description="Crosstalk values", quantity="1")
Double1d	PSWB5 (description="Crosstalk values", quantity="1")
Double1d	PSWB6 (description="Crosstalk values", quantity="1")
Double1d	PSWB7 (description="Crosstalk values", quantity="1")
Double1d	PSWB8 (description="Crosstalk values", quantity="1")
Double1d	PSWB9 (description="Crosstalk values", quantity="1")
Double1d	PSWB10 (description="Crosstalk values", quantity="1")
Double1d	PSWB11 (description="Crosstalk values", quantity="1")
Double1d	PSWB12 (description="Crosstalk values", quantity="1")

<i>Double1d</i>	PSWB13 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWB14 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWB15 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWB16 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWC1 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWC2 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWC3 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWC4 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWC5 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWC6 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWC7 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWC8 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWC9 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWC10 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWC11 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWC12 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWC13 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWC14 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWC15 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWD1 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWD2 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWD3 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWD4 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWD5 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWD6 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWD7 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWD8 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWD9 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWD10 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWD11 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWD12 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWD13 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWD14 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWD15 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWD16 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWE1 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWE2 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWE3 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWE4 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWE5 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWE6 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWE7 (description="Crosstalk values", quantity="1")

<i>Double1d</i>	PSWE8 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWE9 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWE10 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWE11 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWE12 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWE13 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWE14 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWE15 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWF1 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWF2 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWF3 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWF4 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWF5 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWF6 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWF7 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWF8 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWF9 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWF10 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWF11 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWF12 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWF13 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWF14 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWF15 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWF16 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWG1 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWG2 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWG3 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWG4 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWG5 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWG6 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWG7 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWG8 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWG9 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWG10 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWG11 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWG12 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWG13 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWG14 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWG15 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWH1 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWH2 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWH3 (description="Crosstalk values", quantity="1")

<i>Double1d</i>	PSWH4 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWH5 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWH6 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWH7 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWH8 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWH9 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWH10 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWH11 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWH12 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWH13 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWH14 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWH15 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWH16 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWJ1 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWJ2 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWJ3 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWJ4 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWJ5 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWJ6 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWJ7 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWJ8 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWJ9 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWJ10 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWJ11 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWJ12 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWJ13 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWJ14 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWJ15 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWDP1 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWDP2 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWR1 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWT1 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWT2 (description="Crosstalk values", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="PMW", description="Table for PMW array")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="PLW", description="Table for PLW array")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="PTC", description="Table for PTC array")

6.2.23. SPIRECAL Product - Photometer Flux Conversion Calibration Table

<i>product (type="SCalPhotFluxConv", description="Photometer Flux Conversion Calibration Table")</i>	
<i>Metadata</i>	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	biasMode (description="Nominal/bright source mode")
StringParameter	author (description="Author of the data")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
DateParameter	respControlStamp (description="Responsivity calibration product control date stamp")
StringParameter	fileName (description="null")
DoubleParameter	plwBiasAmpl (description="PLW bias voltage amplitude", quantity="V")
DoubleParameter	pmwBiasAmpl (description="PMW bias voltage amplitude", quantity="V")
DoubleParameter	pswBiasAmpl (description="PSW bias voltage amplitude", quantity="V")
StringParameter	dependency (description="Keywords on which product depends", quantity="V")
StringParameter	version (description="null", quantity="V")
StringParameter	dataOrigin (description="Origin of the data", quantity="V")
DoubleParameter	pswBathTemp (description="PSW reference bath temperature", quantity="K")
DoubleParameter	pmwBathTemp (description="PMW reference bath temperature", quantity="K")
DoubleParameter	plwBathTemp (description="PLW reference bath temperature", quantity="K")
StringParameter	sourceTable (description="File name of the source ASCII table", quantity="K")
DoubleParameter	k4E_PSW (description="PSW colour correction for standard nu*F_nu=const. reference SED of an extended source.", quantity="K")
DoubleParameter	k4P_PSW (description="PSW colour correction for standard nu*F_nu=const. reference SED of a point source.", quantity="K")
DoubleParameter	k4E_PMW (description="PMW colour correction for standard nu*F_nu=const. reference SED of an extended source.", quantity="K")
DoubleParameter	k4P_PMW (description="PMW colour correction for standard nu*F_nu=const. reference SED of a point source.", quantity="K")
DoubleParameter	k4E_PLW (description="PLW colour correction for standard nu*F_nu=const. reference SED of an extended source.", quantity="K")
DoubleParameter	k4P_PLW (description="PLW colour correction for standard nu*F_nu=const. reference SED of a point source.", quantity="K")

DoubleParameter	degreeLIADephasing (description="LIA de-phasing angle", quantity="deg")
<i>Columns</i>	
<i>table dataset</i>	(name="PSW", description="Table for PSW array")
<i>Metadata</i>	
DoubleParameter	pswT1RefVoltage (description="PSW T1 reference voltage", quantity="V")
DoubleParameter	pswT1RefVoltageError (description="PSW T1 reference voltage uncertainty", quantity="V")
BooleanParameter	pswT1RefVoltageFlag (description="PSW T1 reference voltage flag", quantity="V")
DoubleParameter	pswT2RefVoltage (description="PSW T2 reference voltage", quantity="V")
DoubleParameter	pswT2RefVoltageError (description="PSW T2 reference voltage uncertainty", quantity="V")
BooleanParameter	pswT2RefVoltageFlag (description="PSW T2 reference voltage flag", quantity="V")
DoubleParameter	pswDP1RefVoltage (description="PSW DK1 reference voltage", quantity="V")
DoubleParameter	pswDP1RefVoltageError (description="PSW DK1 reference voltage uncertainty", quantity="V")
BooleanParameter	pswDP1RefVoltageFlag (description="PSW DK1 reference voltage flag", quantity="V")
DoubleParameter	pswDP2RefVoltage (description="PSW DK2 reference voltage", quantity="V")
DoubleParameter	pswDP2RefVoltageError (description="PSW DK2 reference voltage uncertainty", quantity="V")
BooleanParameter	pswDP2RefVoltageFlag (description="PSW DK2 reference voltage flag", quantity="V")
DoubleParameter	k4E_PSW (description="PSW colour correction for standard nu*F_nu=const. reference SED of an extended source.", quantity="V")
DoubleParameter	k4P_PSW (description="PSW colour correction for standard nu*F_nu=const. reference SED of a point source.", quantity="V")
<i>Columns</i>	
<i>StringId</i>	names (description="Channel names", quantity="1")
<i>FloatId</i>	v0 (description="Zero point voltage", quantity="V")
<i>FloatId</i>	v0Error (description="Zero point voltage error", quantity="V")
<i>BoolId</i>	v0Flag (description="Flag for zero point voltage", quantity="1")
<i>FloatId</i>	k1 (description="First calibration term", quantity="Jy V-1")
<i>FloatId</i>	k1Error (description="Error in first calibration term", quantity="Jy V-1")
<i>FloatId</i>	k2 (description="Second calibration term", quantity="Jy")
<i>FloatId</i>	k2Error (description="Error in second calibration term", quantity="Jy")
<i>FloatId</i>	k3 (description="Third calibration term", quantity="V")
<i>FloatId</i>	k3Error (description="Error in third calibration term", quantity="V")
<i>BoolId</i>	kFlag (description="Flag for astronomy calibration terms", quantity="1")

	<i>Float1d</i>	vMin (description="Minimum voltage limit", quantity="V")
	<i>Float1d</i>	vMax (description="Maximum voltage limit", quantity="V")

6.2.24. SPIRECAL Product - Photometer Flux Conversion Calibration Table

<i>product (type="SCalPhotFluxConv", description="Photometer Flux Conversion Calibration Table")</i>	
<i>Metadata</i>	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	biasMode (description="Nominal/bright source mode")
StringParameter	author (description="Author of the data")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
DateParameter	respControlStamp (description="Responsivity calibration product control date stamp")
StringParameter	fileName (description="null")
DoubleParameter	plwBiasAmpl (description="PLW bias voltage amplitude", quantity="V")
DoubleParameter	pmwBiasAmpl (description="PMW bias voltage amplitude", quantity="V")
DoubleParameter	pswBiasAmpl (description="PSW bias voltage amplitude", quantity="V")
StringParameter	dependency (description="Keywords on which product depends", quantity="V")
StringParameter	version (description="null", quantity="V")
StringParameter	dataOrigin (description="Origin of the data", quantity="V")
DoubleParameter	pswBathTemp (description="PSW reference bath temperature", quantity="K")
DoubleParameter	pmwBathTemp (description="PMW reference bath temperature", quantity="K")
DoubleParameter	plwBathTemp (description="PLW reference bath temperature", quantity="K")
StringParameter	sourceTable (description="File name of the source ASCII table", quantity="K")
DoubleParameter	k4E_PSW (description="PSW colour correction for standard nu*F_nu=const. reference SED of an extended source.", quantity="K")
DoubleParameter	k4P_PSW (description="PSW colour correction for standard nu*F_nu=const. reference SED of a point source.", quantity="K")
DoubleParameter	k4E_PMW (description="PMW colour correction for standard nu*F_nu=const. reference SED of an extended source.", quantity="K")
DoubleParameter	k4P_PMW (description="PMW colour correction for standard nu*F_nu=const. reference SED of a point source.", quantity="K")

DoubleParameter	k4E_PLW (description="PLW colour correction for standard nu*F_nu=const. reference SED of an extended source.", quantity="K")
DoubleParameter	k4P_PLW (description="PLW colour correction for standard nu*F_nu=const. reference SED of a point source.", quantity="K")
DoubleParameter	degreeLIADephasing (description="LIA dephasing angle", quantity="deg")
Columns	
table dataset	(name="PSW", description="Table for PSW array")
Metadata	
DoubleParameter	pswT1RefVoltage (description="PSW T1 reference voltage", quantity="V")
DoubleParameter	pswT1RefVoltageError (description="PSW T1 reference voltage uncertainty", quantity="V")
BooleanParameter	pswT1RefVoltageFlag (description="PSW T1 reference voltage flag", quantity="V")
DoubleParameter	pswT2RefVoltage (description="PSW T2 reference voltage", quantity="V")
DoubleParameter	pswT2RefVoltageError (description="PSW T2 reference voltage uncertainty", quantity="V")
BooleanParameter	pswT2RefVoltageFlag (description="PSW T2 reference voltage flag", quantity="V")
DoubleParameter	pswDP1RefVoltage (description="PSW DK1 reference voltage", quantity="V")
DoubleParameter	pswDP1RefVoltageError (description="PSW DK1 reference voltage uncertainty", quantity="V")
BooleanParameter	pswDP1RefVoltageFlag (description="PSW DK1 reference voltage flag", quantity="V")
DoubleParameter	pswDP2RefVoltage (description="PSW DK2 reference voltage", quantity="V")
DoubleParameter	pswDP2RefVoltageError (description="PSW DK2 reference voltage uncertainty", quantity="V")
BooleanParameter	pswDP2RefVoltageFlag (description="PSW DK2 reference voltage flag", quantity="V")
DoubleParameter	k4E_PSW (description="PSW colour correction for standard nu*F_nu=const. reference SED of an extended source.", quantity="V")
DoubleParameter	k4P_PSW (description="PSW colour correction for standard nu*F_nu=const. reference SED of a point source.", quantity="V")
Columns	
StringId	names (description="Channel names", quantity="1")
FloatId	v0 (description="Zero point voltage", quantity="V")
FloatId	v0Error (description="Zero point voltage error", quantity="V")
BoolId	v0Flag (description="Flag for zero point voltage", quantity="1")
FloatId	k1 (description="First calibration term", quantity="Jy V-1")
FloatId	k1Error (description="Error in first calibration term", quantity="Jy V-1")
FloatId	k2 (description="Second calibration term", quantity="Jy")
FloatId	k2Error (description="Error in second calibration term", quantity="Jy")

<i>FloatId</i>	k3 (description="Third calibration term", quantity="V")
<i>FloatId</i>	k3Error (description="Error in third calibration term", quantity="V")
<i>BoolId</i>	kFlag (description="Flag for astronomy calibration terms", quantity="1")
<i>FloatId</i>	vMin (description="Minimum voltage limit", quantity="V")
<i>FloatId</i>	vMax (description="Maximum voltage limit", quantity="V")

6.2.25. SPIRECAL Product - Photometer Flux Conversion Calibration Table

<i>product (type="SCalPhotFluxConv", description="Photometer Flux Conversion Calibration Table")</i>	
<i>Metadata</i>	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	biasMode (description="Nominal/bright source mode")
StringParameter	author (description="Author of the data")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
DateParameter	respControlStamp (description="Responsivity calibration product control date stamp")
StringParameter	fileName (description="null")
DoubleParameter	plwBiasAmpl (description="PLW bias voltage amplitude", quantity="V")
DoubleParameter	pmwBiasAmpl (description="PMW bias voltage amplitude", quantity="V")
DoubleParameter	pswBiasAmpl (description="PSW bias voltage amplitude", quantity="V")
StringParameter	dependency (description="Keywords on which product depends", quantity="V")
StringParameter	version (description="null", quantity="V")
StringParameter	dataOrigin (description="Origin of the data", quantity="V")
DoubleParameter	degreePSWLIADephasing (description="PSW LIA dephasing angle", quantity="deg")
DoubleParameter	degreePMWLIADephasing (description="PMW LIA dephasing angle", quantity="deg")
DoubleParameter	degreePLWLIADephasing (description="PLW LIA dephasing angle", quantity="deg")
DoubleParameter	pswBathTemp (description="PSW reference bath temperature", quantity="K")
DoubleParameter	pmwBathTemp (description="PMW reference bath temperature", quantity="K")

DoubleParameter	plwBathTemp (description="PLW reference bath temperature", quantity="K")
StringParameter	sourceTable (description="File name of the source ASCII table", quantity="K")
DoubleParameter	k4E_PSW (description="PSW colour correction for standard nu*F_nu=const. reference SED of an extended source.", quantity="K")
DoubleParameter	k4P_PSW (description="PSW colour correction for standard nu*F_nu=const. reference SED of a point source.", quantity="K")
DoubleParameter	k4E_PMW (description="PMW colour correction for standard nu*F_nu=const. reference SED of an extended source.", quantity="K")
DoubleParameter	k4P_PMW (description="PMW colour correction for standard nu*F_nu=const. reference SED of a point source.", quantity="K")
DoubleParameter	k4E_PLW (description="PLW colour correction for standard nu*F_nu=const. reference SED of an extended source.", quantity="K")
DoubleParameter	k4P_PLW (description="PLW colour correction for standard nu*F_nu=const. reference SED of a point source.", quantity="K")
<i>Columns</i>	
<i>table dataset</i>	(name="PSW", description="Table for PSW array")
<i>Metadata</i>	
DoubleParameter	pswT1RefVoltage (description="PSW T1 reference voltage", quantity="V")
DoubleParameter	pswT1RefVoltageError (description="PSW T1 reference voltage uncertainty", quantity="V")
BooleanParameter	pswT1RefVoltageFlag (description="PSW T1 reference voltage flag", quantity="V")
DoubleParameter	pswT2RefVoltage (description="PSW T2 reference voltage", quantity="V")
DoubleParameter	pswT2RefVoltageError (description="PSW T2 reference voltage uncertainty", quantity="V")
BooleanParameter	pswT2RefVoltageFlag (description="PSW T1 reference voltage flag", quantity="V")
DoubleParameter	pswDP1RefVoltage (description="PSW DK1 reference voltage", quantity="V")
DoubleParameter	pswDP1RefVoltageError (description="PSW DK1 reference voltage uncertainty", quantity="V")
BooleanParameter	pswDP1RefVoltageFlag (description="PSW DK1 reference voltage flag", quantity="V")
DoubleParameter	pswDP2RefVoltage (description="PSW DK2 reference voltage", quantity="V")
DoubleParameter	pswDP2RefVoltageError (description="PSW DK2 reference voltage uncertainty", quantity="V")
BooleanParameter	pswDP2RefVoltageFlag (description="PSW DK2 reference voltage flag", quantity="V")
DoubleParameter	k4E_PSW (description="PSW colour correction for standard nu*F_nu=const. reference SED of an extended source.", quantity="V")
DoubleParameter	k4P_PSW (description="PSW colour correction for standard nu*F_nu=const. reference SED of a point source.", quantity="V")
<i>Columns</i>	
<i>StringId</i>	names (description="Channel names", quantity="1")

<i>FloatId</i>	v0 (description="Zero point voltage", quantity="V")
<i>FloatId</i>	v0Error (description="Zero point voltage error", quantity="V")
<i>BoolId</i>	v0Flag (description="Flag for zero point voltage", quantity="1")
<i>FloatId</i>	k1 (description="First calibration term", quantity="Jy V-1")
<i>FloatId</i>	k1Error (description="Error in first calibration term", quantity="Jy V-1")
<i>FloatId</i>	k2 (description="Second calibration term", quantity="Jy")
<i>FloatId</i>	k2Error (description="Error in second calibration term", quantity="Jy")
<i>FloatId</i>	k3 (description="Third calibration term", quantity="V")
<i>FloatId</i>	k3Error (description="Error in third calibration term", quantity="V")
<i>BoolId</i>	kFlag (description="Flag for astronomy calibration terms", quantity="1")
<i>FloatId</i>	vMin (description="Minimum voltage limit", quantity="V")
<i>FloatId</i>	vMax (description="Maximum voltage limit", quantity="V")

6.2.26. SPIRECAL Product - Photometer Flux Conversion Calibration Table

<i>product</i> (type="SCalPhotFluxConv", description="Photometer Flux Conversion Calibration Table")	
<i>Metadata</i>	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	biasMode (description="Nominal/bright source mode")
StringParameter	author (description="Author of the data")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
DateParameter	respControlStamp (description="Responsivity calibration product control date stamp")
StringParameter	fileName (description="null")
DoubleParameter	plwBiasAmpl (description="PLW bias voltage amplitude", quantity="V")
DoubleParameter	pmwBiasAmpl (description="PMW bias voltage amplitude", quantity="V")
DoubleParameter	pswBiasAmpl (description="PSW bias voltage amplitude", quantity="V")
StringParameter	dependency (description="Keywords on which product depends", quantity="V")
StringParameter	version (description="null", quantity="V")
StringParameter	dataOrigin (description="Origin of the data", quantity="V")

DoubleParameter	degreePSWLIADephasing (description="PSW LIA dephasing angle", quantity="deg")
DoubleParameter	degreePMWLIADephasing (description="PMW LIA dephasing angle", quantity="deg")
DoubleParameter	degreePLWLIADephasing (description="PLW LIA dephasing angle", quantity="deg")
DoubleParameter	pswBathTemp (description="PSW reference bath temperature", quantity="K")
DoubleParameter	pmwBathTemp (description="PMW reference bath temperature", quantity="K")
DoubleParameter	plwBathTemp (description="PLW reference bath temperature", quantity="K")
StringParameter	sourceTable (description="File name of the source ASCII table", quantity="K")
DoubleParameter	k4E_PSW (description="PSW colour correction for standard nu*F_nu=const. reference SED of an extended source.", quantity="K")
DoubleParameter	k4P_PSW (description="PSW colour correction for standard nu*F_nu=const. reference SED of a point source.", quantity="K")
DoubleParameter	k4E_PMW (description="PMW colour correction for standard nu*F_nu=const. reference SED of an extended source.", quantity="K")
DoubleParameter	k4P_PMW (description="PMW colour correction for standard nu*F_nu=const. reference SED of a point source.", quantity="K")
DoubleParameter	k4E_PLW (description="PLW colour correction for standard nu*F_nu=const. reference SED of an extended source.", quantity="K")
DoubleParameter	k4P_PLW (description="PLW colour correction for standard nu*F_nu=const. reference SED of a point source.", quantity="K")
<i>Columns</i>	
<i>table dataset</i>	(name="PSW", description="Table for PSW array")
<i>Metadata</i>	
DoubleParameter	pswT1RefVoltage (description="PSW T1 reference voltage", quantity="V")
DoubleParameter	pswT1RefVoltageError (description="PSW T1 reference voltage uncertainty", quantity="V")
BooleanParameter	pswT1RefVoltageFlag (description="PSW T1 reference voltage flag", quantity="V")
DoubleParameter	pswT2RefVoltage (description="PSW T2 reference voltage", quantity="V")
DoubleParameter	pswT2RefVoltageError (description="PSW T2 reference voltage uncertainty", quantity="V")
BooleanParameter	pswT2RefVoltageFlag (description="PSW T2 reference voltage flag", quantity="V")
DoubleParameter	pswDP1RefVoltage (description="PSW DK1 reference voltage", quantity="V")
DoubleParameter	pswDP1RefVoltageError (description="PSW DK1 reference voltage uncertainty", quantity="V")
BooleanParameter	pswDP1RefVoltageFlag (description="PSW DK1 reference voltage flag", quantity="V")
DoubleParameter	pswDP2RefVoltage (description="PSW DK2 reference voltage", quantity="V")

DoubleParameter	pswDP2RefVoltageError (description="PSW DK2 reference voltage uncertainty", quantity="V")
BooleanParameter	pswDP2RefVoltageFlag (description="PSW DK2 reference voltage flag", quantity="V")
DoubleParameter	k4E_PSW (description="PSW colour correction for standard nu*F_nu=const. reference SED of an extended source.", quantity="V")
DoubleParameter	k4P_PSW (description="PSW colour correction for standard nu*F_nu=const. reference SED of a point source.", quantity="V")
<i>Columns</i>	
<i>StringId</i>	names (description="Channel names", quantity="1")
<i>FloatId</i>	v0 (description="Zero point voltage", quantity="V")
<i>FloatId</i>	v0Error (description="Zero point voltage error", quantity="V")
<i>BoolId</i>	v0Flag (description="Flag for zero point voltage", quantity="1")
<i>FloatId</i>	k1 (description="First calibration term", quantity="Jy V-1")
<i>FloatId</i>	k1Error (description="Error in first calibration term", quantity="Jy V-1")
<i>FloatId</i>	k2 (description="Second calibration term", quantity="Jy")
<i>FloatId</i>	k2Error (description="Error in second calibration term", quantity="Jy")
<i>FloatId</i>	k3 (description="Third calibration term", quantity="V")
<i>FloatId</i>	k3Error (description="Error in third calibration term", quantity="V")
<i>BoolId</i>	kFlag (description="Flag for astronomy calibration terms", quantity="1")
<i>FloatId</i>	vMin (description="Minimum voltage limit", quantity="V")
<i>FloatId</i>	vMax (description="Maximum voltage limit", quantity="V")

6.2.27. SPIRECAL Product - Photometer Instrument Mode Mask Table

<i>product (type="SCalPhotInstModeMask", description="Photometer Instrument Mode Mask Table")</i>	
<i>Metadata</i>	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
StringParameter	fileName (description="null")
StringParameter	dependency (description="Keywords on which product depends")
StringParameter	version (description="null")

<i>Columns</i>	
<i>table dataset</i>	(name="PSW", description="Table for PSW array")
<i>Metadata</i>	
<i>Columns</i>	
<i>StringId</i>	names (description="Channel names", quantity="1")
<i>BoolId</i>	POF2 (description="Detectors chopped out of FOV", quantity="1")
<i>BoolId</i>	POF3 (description="Detectors chopped out of FOV", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="PMW", description="Table for PMW array")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="PLW", description="Table for PLW array")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="PTC", description="Table for PTC array")

6.2.28. SPIRECAL Product - Photometer Low Pass Filter Parameters

<i>product (type="SCalPhotLpfPar", description="Photometer Low Pass Filter Parameters")</i>	
<i>Metadata</i>	
<i>StringParameter</i>	instrument (description="Instrument attached to this product")
<i>StringParameter</i>	creator (description="Generator of this product")
<i>DateParameter</i>	creationDate (description="Creation date of this product")
<i>DateParameter</i>	startDate (description="Start date of this product")
<i>DateParameter</i>	endDate (description="End date of this product")
<i>StringParameter</i>	modelName (description="Model name attached to this product")
<i>StringParameter</i>	formatVersion (description="Version of product format")
<i>StringParameter</i>	type (description="Product Type Identification")
<i>StringParameter</i>	description (description="Name of this product")
<i>StringParameter</i>	fileName (description="null")
<i>StringParameter</i>	version (description="null")
<i>Columns</i>	
<i>table dataset</i>	(name="Low Pass Filter Parameters", description="Low Pass Filter Parameters Table")
<i>Metadata</i>	
<i>Columns</i>	
<i>IntId</i>	filter (description="Filter Number", quantity="none")
<i>DoubleId</i>	r1 (description="Filter Resistor 1", quantity="Ohm")
<i>DoubleId</i>	r2 (description="Filter Resistor 2", quantity="Ohm")
<i>DoubleId</i>	r3 (description="Filter Resistor 3", quantity="Ohm")

	<i>DoubleId</i>	r4 (description="Filter Resistor 4", quantity="Ohm")
	<i>DoubleId</i>	c1 (description="Filter Capacitor 1", quantity="F")
	<i>DoubleId</i>	c2 (description="Filter Capacitor 2", quantity="F")

6.2.29. SPIRECAL Product - Photometer Channel Offset History

<i>product</i> (type="SCalPhotOffsetHist", description="Photometer Channel Offset History")		
<i>Metadata</i>		
StringParameter	instrument (description="Instrument attached to this product")	
StringParameter	subsystem (description="Instrument subsystem")	
StringParameter	creator (description="Generator of this product")	
LongParameter	odNumber (description="Operational day number")	
DateParameter	creationDate (description="Creation date of this product")	
DateParameter	startDate (description="Start date of this product")	
DateParameter	endDate (description="End date of this product")	
StringParameter	modelName (description="Model name attached to this product")	
StringParameter	formatVersion (description="Version of product format")	
StringParameter	type (description="Product Type Identification")	
StringParameter	description (description="Name of this product")	
StringParameter	version (description="Version")	
<i>Columns</i>		
<i>table dataset</i>	(name="table", description="null")	
<i>Metadata</i>		
<i>Columns</i>		
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="s")	
<i>IntId</i>	PSWA1 (description="PSWA1 signal offset", quantity="1")	
<i>IntId</i>	PSWA2 (description="PSWA2 signal offset", quantity="1")	
<i>IntId</i>	PSWA3 (description="PSWA3 signal offset", quantity="1")	
<i>IntId</i>	PSWA4 (description="PSWA4 signal offset", quantity="1")	
<i>IntId</i>	PSWA5 (description="PSWA5 signal offset", quantity="1")	
<i>IntId</i>	PSWA6 (description="PSWA6 signal offset", quantity="1")	
<i>IntId</i>	PSWA7 (description="PSWA7 signal offset", quantity="1")	
<i>IntId</i>	PSWA8 (description="PSWA8 signal offset", quantity="1")	
<i>IntId</i>	PSWA9 (description="PSWA9 signal offset", quantity="1")	
<i>IntId</i>	PSWA10 (description="PSWA10 signal offset", quantity="1")	
<i>IntId</i>	PSWA11 (description="PSWA11 signal offset", quantity="1")	
<i>IntId</i>	PSWA12 (description="PSWA12 signal offset", quantity="1")	
<i>IntId</i>	PSWA13 (description="PSWA13 signal offset", quantity="1")	
<i>IntId</i>	PSWA14 (description="PSWA14 signal offset", quantity="1")	
<i>IntId</i>	PSWA15 (description="PSWA15 signal offset", quantity="1")	

<i>Int1d</i>	PSWB1 (description="PSWB1 signal offset", quantity="1")
<i>Int1d</i>	PSWB2 (description="PSWB2 signal offset", quantity="1")
<i>Int1d</i>	PSWB3 (description="PSWB3 signal offset", quantity="1")
<i>Int1d</i>	PSWB4 (description="PSWB4 signal offset", quantity="1")
<i>Int1d</i>	PSWB5 (description="PSWB5 signal offset", quantity="1")
<i>Int1d</i>	PSWB6 (description="PSWB6 signal offset", quantity="1")
<i>Int1d</i>	PSWB7 (description="PSWB7 signal offset", quantity="1")
<i>Int1d</i>	PSWB8 (description="PSWB8 signal offset", quantity="1")
<i>Int1d</i>	PSWB9 (description="PSWB9 signal offset", quantity="1")
<i>Int1d</i>	PSWB10 (description="PSWB10 signal offset", quantity="1")
<i>Int1d</i>	PSWB11 (description="PSWB11 signal offset", quantity="1")
<i>Int1d</i>	PSWB12 (description="PSWB12 signal offset", quantity="1")
<i>Int1d</i>	PSWB13 (description="PSWB13 signal offset", quantity="1")
<i>Int1d</i>	PSWB14 (description="PSWB14 signal offset", quantity="1")
<i>Int1d</i>	PSWB15 (description="PSWB15 signal offset", quantity="1")
<i>Int1d</i>	PSWB16 (description="PSWB16 signal offset", quantity="1")
<i>Int1d</i>	PSWC1 (description="PSWC1 signal offset", quantity="1")
<i>Int1d</i>	PSWC2 (description="PSWC2 signal offset", quantity="1")
<i>Int1d</i>	PSWC3 (description="PSWC3 signal offset", quantity="1")
<i>Int1d</i>	PSWC4 (description="PSWC4 signal offset", quantity="1")
<i>Int1d</i>	PSWC5 (description="PSWC5 signal offset", quantity="1")
<i>Int1d</i>	PSWC6 (description="PSWC6 signal offset", quantity="1")
<i>Int1d</i>	PSWC7 (description="PSWC7 signal offset", quantity="1")
<i>Int1d</i>	PSWC8 (description="PSWC8 signal offset", quantity="1")
<i>Int1d</i>	PSWC9 (description="PSWC9 signal offset", quantity="1")
<i>Int1d</i>	PSWC10 (description="PSWC10 signal offset", quantity="1")
<i>Int1d</i>	PSWC11 (description="PSWC11 signal offset", quantity="1")
<i>Int1d</i>	PSWC12 (description="PSWC12 signal offset", quantity="1")
<i>Int1d</i>	PSWC13 (description="PSWC13 signal offset", quantity="1")
<i>Int1d</i>	PSWC14 (description="PSWC14 signal offset", quantity="1")
<i>Int1d</i>	PSWC15 (description="PSWC15 signal offset", quantity="1")
<i>Int1d</i>	PSWD1 (description="PSWD1 signal offset", quantity="1")
<i>Int1d</i>	PSWD2 (description="PSWD2 signal offset", quantity="1")
<i>Int1d</i>	PSWD3 (description="PSWD3 signal offset", quantity="1")
<i>Int1d</i>	PSWD4 (description="PSWD4 signal offset", quantity="1")
<i>Int1d</i>	PSWD5 (description="PSWD5 signal offset", quantity="1")
<i>Int1d</i>	PSWD6 (description="PSWD6 signal offset", quantity="1")
<i>Int1d</i>	PSWD7 (description="PSWD7 signal offset", quantity="1")
<i>Int1d</i>	PSWD8 (description="PSWD8 signal offset", quantity="1")
<i>Int1d</i>	PSWD9 (description="PSWD9 signal offset", quantity="1")
<i>Int1d</i>	PSWD10 (description="PSWD10 signal offset", quantity="1")
<i>Int1d</i>	PSWD11 (description="PSWD11 signal offset", quantity="1")

<i>Int1d</i>	PSWD12 (description="PSWD12 signal offset", quantity="1")
<i>Int1d</i>	PSWD13 (description="PSWD13 signal offset", quantity="1")
<i>Int1d</i>	PSWD14 (description="PSWD14 signal offset", quantity="1")
<i>Int1d</i>	PSWD15 (description="PSWD15 signal offset", quantity="1")
<i>Int1d</i>	PSWD16 (description="PSWD16 signal offset", quantity="1")
<i>Int1d</i>	PSWE1 (description="PSWE1 signal offset", quantity="1")
<i>Int1d</i>	PSWE2 (description="PSWE2 signal offset", quantity="1")
<i>Int1d</i>	PSWE3 (description="PSWE3 signal offset", quantity="1")
<i>Int1d</i>	PSWE4 (description="PSWE4 signal offset", quantity="1")
<i>Int1d</i>	PSWE5 (description="PSWE5 signal offset", quantity="1")
<i>Int1d</i>	PSWE6 (description="PSWE6 signal offset", quantity="1")
<i>Int1d</i>	PSWE7 (description="PSWE7 signal offset", quantity="1")
<i>Int1d</i>	PSWE8 (description="PSWE8 signal offset", quantity="1")
<i>Int1d</i>	PSWE9 (description="PSWE9 signal offset", quantity="1")
<i>Int1d</i>	PSWE10 (description="PSWE10 signal offset", quantity="1")
<i>Int1d</i>	PSWE11 (description="PSWE11 signal offset", quantity="1")
<i>Int1d</i>	PSWE12 (description="PSWE12 signal offset", quantity="1")
<i>Int1d</i>	PSWE13 (description="PSWE13 signal offset", quantity="1")
<i>Int1d</i>	PSWE14 (description="PSWE14 signal offset", quantity="1")
<i>Int1d</i>	PSWE15 (description="PSWE15 signal offset", quantity="1")
<i>Int1d</i>	PSWF1 (description="PSWF1 signal offset", quantity="1")
<i>Int1d</i>	PSWF2 (description="PSWF2 signal offset", quantity="1")
<i>Int1d</i>	PSWF3 (description="PSWF3 signal offset", quantity="1")
<i>Int1d</i>	PSWF4 (description="PSWF4 signal offset", quantity="1")
<i>Int1d</i>	PSWF5 (description="PSWF5 signal offset", quantity="1")
<i>Int1d</i>	PSWF6 (description="PSWF6 signal offset", quantity="1")
<i>Int1d</i>	PSWF7 (description="PSWF7 signal offset", quantity="1")
<i>Int1d</i>	PSWF8 (description="PSWF8 signal offset", quantity="1")
<i>Int1d</i>	PSWF9 (description="PSWF9 signal offset", quantity="1")
<i>Int1d</i>	PSWF10 (description="PSWF10 signal offset", quantity="1")
<i>Int1d</i>	PSWF11 (description="PSWF11 signal offset", quantity="1")
<i>Int1d</i>	PSWF12 (description="PSWF12 signal offset", quantity="1")
<i>Int1d</i>	PSWF13 (description="PSWF13 signal offset", quantity="1")
<i>Int1d</i>	PSWF14 (description="PSWF14 signal offset", quantity="1")
<i>Int1d</i>	PSWF15 (description="PSWF15 signal offset", quantity="1")
<i>Int1d</i>	PSWF16 (description="PSWF16 signal offset", quantity="1")
<i>Int1d</i>	PSWG1 (description="PSWG1 signal offset", quantity="1")
<i>Int1d</i>	PSWG2 (description="PSWG2 signal offset", quantity="1")
<i>Int1d</i>	PSWG3 (description="PSWG3 signal offset", quantity="1")
<i>Int1d</i>	PSWG4 (description="PSWG4 signal offset", quantity="1")
<i>Int1d</i>	PSWG5 (description="PSWG5 signal offset", quantity="1")
<i>Int1d</i>	PSWG6 (description="PSWG6 signal offset", quantity="1")

<i>Int1d</i>	PSWG7 (description="PSWG7 signal offset", quantity="1")
<i>Int1d</i>	PSWG8 (description="PSWG8 signal offset", quantity="1")
<i>Int1d</i>	PSWG9 (description="PSWG9 signal offset", quantity="1")
<i>Int1d</i>	PSWG10 (description="PSWG10 signal offset", quantity="1")
<i>Int1d</i>	PSWG11 (description="PSWG11 signal offset", quantity="1")
<i>Int1d</i>	PSWG12 (description="PSWG12 signal offset", quantity="1")
<i>Int1d</i>	PSWG13 (description="PSWG13 signal offset", quantity="1")
<i>Int1d</i>	PSWG14 (description="PSWG14 signal offset", quantity="1")
<i>Int1d</i>	PSWG15 (description="PSWG15 signal offset", quantity="1")
<i>Int1d</i>	PSWH1 (description="PSWH1 signal offset", quantity="1")
<i>Int1d</i>	PSWH2 (description="PSWH2 signal offset", quantity="1")
<i>Int1d</i>	PSWH3 (description="PSWH3 signal offset", quantity="1")
<i>Int1d</i>	PSWH4 (description="PSWH4 signal offset", quantity="1")
<i>Int1d</i>	PSWH5 (description="PSWH5 signal offset", quantity="1")
<i>Int1d</i>	PSWH6 (description="PSWH6 signal offset", quantity="1")
<i>Int1d</i>	PSWH7 (description="PSWH7 signal offset", quantity="1")
<i>Int1d</i>	PSWH8 (description="PSWH8 signal offset", quantity="1")
<i>Int1d</i>	PSWH9 (description="PSWH9 signal offset", quantity="1")
<i>Int1d</i>	PSWH10 (description="PSWH10 signal offset", quantity="1")
<i>Int1d</i>	PSWH11 (description="PSWH11 signal offset", quantity="1")
<i>Int1d</i>	PSWH12 (description="PSWH12 signal offset", quantity="1")
<i>Int1d</i>	PSWH13 (description="PSWH13 signal offset", quantity="1")
<i>Int1d</i>	PSWH14 (description="PSWH14 signal offset", quantity="1")
<i>Int1d</i>	PSWH15 (description="PSWH15 signal offset", quantity="1")
<i>Int1d</i>	PSWH16 (description="PSWH16 signal offset", quantity="1")
<i>Int1d</i>	PSWJ1 (description="PSWJ1 signal offset", quantity="1")
<i>Int1d</i>	PSWJ2 (description="PSWJ2 signal offset", quantity="1")
<i>Int1d</i>	PSWJ3 (description="PSWJ3 signal offset", quantity="1")
<i>Int1d</i>	PSWJ4 (description="PSWJ4 signal offset", quantity="1")
<i>Int1d</i>	PSWJ5 (description="PSWJ5 signal offset", quantity="1")
<i>Int1d</i>	PSWJ6 (description="PSWJ6 signal offset", quantity="1")
<i>Int1d</i>	PSWJ7 (description="PSWJ7 signal offset", quantity="1")
<i>Int1d</i>	PSWJ8 (description="PSWJ8 signal offset", quantity="1")
<i>Int1d</i>	PSWJ9 (description="PSWJ9 signal offset", quantity="1")
<i>Int1d</i>	PSWJ10 (description="PSWJ10 signal offset", quantity="1")
<i>Int1d</i>	PSWJ11 (description="PSWJ11 signal offset", quantity="1")
<i>Int1d</i>	PSWJ12 (description="PSWJ12 signal offset", quantity="1")
<i>Int1d</i>	PSWJ13 (description="PSWJ13 signal offset", quantity="1")
<i>Int1d</i>	PSWJ14 (description="PSWJ14 signal offset", quantity="1")
<i>Int1d</i>	PSWJ15 (description="PSWJ15 signal offset", quantity="1")
<i>Int1d</i>	PSWDP1 (description="PSWDP1 signal offset", quantity="1")
<i>Int1d</i>	PSWDP2 (description="PSWDP2 signal offset", quantity="1")

<i>Int1d</i>	PSWR1 (description="PSWR1 signal offset", quantity="1")
<i>Int1d</i>	PSWT1 (description="PSWT1 signal offset", quantity="1")
<i>Int1d</i>	PSWT2 (description="PSWT2 signal offset", quantity="1")
<i>Int1d</i>	PMWA1 (description="PMWA1 signal offset", quantity="1")
<i>Int1d</i>	PMWA2 (description="PMWA2 signal offset", quantity="1")
<i>Int1d</i>	PMWA3 (description="PMWA3 signal offset", quantity="1")
<i>Int1d</i>	PMWA4 (description="PMWA4 signal offset", quantity="1")
<i>Int1d</i>	PMWA5 (description="PMWA5 signal offset", quantity="1")
<i>Int1d</i>	PMWA6 (description="PMWA6 signal offset", quantity="1")
<i>Int1d</i>	PMWA7 (description="PMWA7 signal offset", quantity="1")
<i>Int1d</i>	PMWA8 (description="PMWA8 signal offset", quantity="1")
<i>Int1d</i>	PMWA9 (description="PMWA9 signal offset", quantity="1")
<i>Int1d</i>	PMWA10 (description="PMWA10 signal offset", quantity="1")
<i>Int1d</i>	PMWA11 (description="PMWA11 signal offset", quantity="1")
<i>Int1d</i>	PMWA12 (description="PMWA12 signal offset", quantity="1")
<i>Int1d</i>	PMWA13 (description="PMWA13 signal offset", quantity="1")
<i>Int1d</i>	PMWB1 (description="PMWB1 signal offset", quantity="1")
<i>Int1d</i>	PMWB2 (description="PMWB2 signal offset", quantity="1")
<i>Int1d</i>	PMWB3 (description="PMWB3 signal offset", quantity="1")
<i>Int1d</i>	PMWB4 (description="PMWB4 signal offset", quantity="1")
<i>Int1d</i>	PMWB5 (description="PMWB5 signal offset", quantity="1")
<i>Int1d</i>	PMWB6 (description="PMWB6 signal offset", quantity="1")
<i>Int1d</i>	PMWB7 (description="PMWB7 signal offset", quantity="1")
<i>Int1d</i>	PMWB8 (description="PMWB8 signal offset", quantity="1")
<i>Int1d</i>	PMWB9 (description="PMWB9 signal offset", quantity="1")
<i>Int1d</i>	PMWB10 (description="PMWB10 signal offset", quantity="1")
<i>Int1d</i>	PMWB11 (description="PMWB11 signal offset", quantity="1")
<i>Int1d</i>	PMWB12 (description="PMWB12 signal offset", quantity="1")
<i>Int1d</i>	PMWC1 (description="PMWC1 signal offset", quantity="1")
<i>Int1d</i>	PMWC2 (description="PMWC2 signal offset", quantity="1")
<i>Int1d</i>	PMWC3 (description="PMWC3 signal offset", quantity="1")
<i>Int1d</i>	PMWC4 (description="PMWC4 signal offset", quantity="1")
<i>Int1d</i>	PMWC5 (description="PMWC5 signal offset", quantity="1")
<i>Int1d</i>	PMWC6 (description="PMWC6 signal offset", quantity="1")
<i>Int1d</i>	PMWC7 (description="PMWC7 signal offset", quantity="1")
<i>Int1d</i>	PMWC8 (description="PMWC8 signal offset", quantity="1")
<i>Int1d</i>	PMWC9 (description="PMWC9 signal offset", quantity="1")
<i>Int1d</i>	PMWC10 (description="PMWC10 signal offset", quantity="1")
<i>Int1d</i>	PMWC11 (description="PMWC11 signal offset", quantity="1")
<i>Int1d</i>	PMWC12 (description="PMWC12 signal offset", quantity="1")
<i>Int1d</i>	PMWC13 (description="PMWC13 signal offset", quantity="1")
<i>Int1d</i>	PMWD1 (description="PMWD1 signal offset", quantity="1")

<i>Int1d</i>	PMWD2 (description="PMWD2 signal offset", quantity="1")
<i>Int1d</i>	PMWD3 (description="PMWD3 signal offset", quantity="1")
<i>Int1d</i>	PMWD4 (description="PMWD4 signal offset", quantity="1")
<i>Int1d</i>	PMWD5 (description="PMWD5 signal offset", quantity="1")
<i>Int1d</i>	PMWD6 (description="PMWD6 signal offset", quantity="1")
<i>Int1d</i>	PMWD7 (description="PMWD7 signal offset", quantity="1")
<i>Int1d</i>	PMWD8 (description="PMWD8 signal offset", quantity="1")
<i>Int1d</i>	PMWD9 (description="PMWD9 signal offset", quantity="1")
<i>Int1d</i>	PMWD10 (description="PMWD10 signal offset", quantity="1")
<i>Int1d</i>	PMWD11 (description="PMWD11 signal offset", quantity="1")
<i>Int1d</i>	PMWD12 (description="PMWD12 signal offset", quantity="1")
<i>Int1d</i>	PMWE1 (description="PMWE1 signal offset", quantity="1")
<i>Int1d</i>	PMWE2 (description="PMWE2 signal offset", quantity="1")
<i>Int1d</i>	PMWE3 (description="PMWE3 signal offset", quantity="1")
<i>Int1d</i>	PMWE4 (description="PMWE4 signal offset", quantity="1")
<i>Int1d</i>	PMWE5 (description="PMWE5 signal offset", quantity="1")
<i>Int1d</i>	PMWE6 (description="PMWE6 signal offset", quantity="1")
<i>Int1d</i>	PMWE7 (description="PMWE7 signal offset", quantity="1")
<i>Int1d</i>	PMWE8 (description="PMWE8 signal offset", quantity="1")
<i>Int1d</i>	PMWE9 (description="PMWE9 signal offset", quantity="1")
<i>Int1d</i>	PMWE10 (description="PMWE10 signal offset", quantity="1")
<i>Int1d</i>	PMWE11 (description="PMWE11 signal offset", quantity="1")
<i>Int1d</i>	PMWE12 (description="PMWE12 signal offset", quantity="1")
<i>Int1d</i>	PMWE13 (description="PMWE13 signal offset", quantity="1")
<i>Int1d</i>	PMWF1 (description="PMWF1 signal offset", quantity="1")
<i>Int1d</i>	PMWF2 (description="PMWF2 signal offset", quantity="1")
<i>Int1d</i>	PMWF3 (description="PMWF3 signal offset", quantity="1")
<i>Int1d</i>	PMWF4 (description="PMWF4 signal offset", quantity="1")
<i>Int1d</i>	PMWF5 (description="PMWF5 signal offset", quantity="1")
<i>Int1d</i>	PMWF6 (description="PMWF6 signal offset", quantity="1")
<i>Int1d</i>	PMWF7 (description="PMWF7 signal offset", quantity="1")
<i>Int1d</i>	PMWF8 (description="PMWF8 signal offset", quantity="1")
<i>Int1d</i>	PMWF9 (description="PMWF9 signal offset", quantity="1")
<i>Int1d</i>	PMWF10 (description="PMWF10 signal offset", quantity="1")
<i>Int1d</i>	PMWF11 (description="PMWF11 signal offset", quantity="1")
<i>Int1d</i>	PMWF12 (description="PMWF12 signal offset", quantity="1")
<i>Int1d</i>	PMWG1 (description="PMWG1 signal offset", quantity="1")
<i>Int1d</i>	PMWG2 (description="PMWG2 signal offset", quantity="1")
<i>Int1d</i>	PMWG3 (description="PMWG3 signal offset", quantity="1")
<i>Int1d</i>	PMWG4 (description="PMWG4 signal offset", quantity="1")
<i>Int1d</i>	PMWG5 (description="PMWG5 signal offset", quantity="1")
<i>Int1d</i>	PMWG6 (description="PMWG6 signal offset", quantity="1")

<i>Int1d</i>	PMWG7 (description="PMWG7 signal offset", quantity="1")
<i>Int1d</i>	PMWG8 (description="PMWG8 signal offset", quantity="1")
<i>Int1d</i>	PMWG9 (description="PMWG9 signal offset", quantity="1")
<i>Int1d</i>	PMWG10 (description="PMWG10 signal offset", quantity="1")
<i>Int1d</i>	PMWG11 (description="PMWG11 signal offset", quantity="1")
<i>Int1d</i>	PMWG12 (description="PMWG12 signal offset", quantity="1")
<i>Int1d</i>	PMWG13 (description="PMWG13 signal offset", quantity="1")
<i>Int1d</i>	PMWDP1 (description="PMWDP1 signal offset", quantity="1")
<i>Int1d</i>	PMWDP2 (description="PMWDP2 signal offset", quantity="1")
<i>Int1d</i>	PMWR1 (description="PMWR1 signal offset", quantity="1")
<i>Int1d</i>	PMWT1 (description="PMWT1 signal offset", quantity="1")
<i>Int1d</i>	PMWT2 (description="PMWT2 signal offset", quantity="1")
<i>Int1d</i>	PLWA1 (description="PLWA1 signal offset", quantity="1")
<i>Int1d</i>	PLWA2 (description="PLWA2 signal offset", quantity="1")
<i>Int1d</i>	PLWA3 (description="PLWA3 signal offset", quantity="1")
<i>Int1d</i>	PLWA4 (description="PLWA4 signal offset", quantity="1")
<i>Int1d</i>	PLWA5 (description="PLWA5 signal offset", quantity="1")
<i>Int1d</i>	PLWA6 (description="PLWA6 signal offset", quantity="1")
<i>Int1d</i>	PLWA7 (description="PLWA7 signal offset", quantity="1")
<i>Int1d</i>	PLWA8 (description="PLWA8 signal offset", quantity="1")
<i>Int1d</i>	PLWA9 (description="PLWA9 signal offset", quantity="1")
<i>Int1d</i>	PLWB1 (description="PLWB1 signal offset", quantity="1")
<i>Int1d</i>	PLWB2 (description="PLWB2 signal offset", quantity="1")
<i>Int1d</i>	PLWB3 (description="PLWB3 signal offset", quantity="1")
<i>Int1d</i>	PLWB4 (description="PLWB4 signal offset", quantity="1")
<i>Int1d</i>	PLWB5 (description="PLWB5 signal offset", quantity="1")
<i>Int1d</i>	PLWB6 (description="PLWB6 signal offset", quantity="1")
<i>Int1d</i>	PLWB7 (description="PLWB7 signal offset", quantity="1")
<i>Int1d</i>	PLWB8 (description="PLWB8 signal offset", quantity="1")
<i>Int1d</i>	PLWC1 (description="PLWC1 signal offset", quantity="1")
<i>Int1d</i>	PLWC2 (description="PLWC2 signal offset", quantity="1")
<i>Int1d</i>	PLWC3 (description="PLWC3 signal offset", quantity="1")
<i>Int1d</i>	PLWC4 (description="PLWC4 signal offset", quantity="1")
<i>Int1d</i>	PLWC5 (description="PLWC5 signal offset", quantity="1")
<i>Int1d</i>	PLWC6 (description="PLWC6 signal offset", quantity="1")
<i>Int1d</i>	PLWC7 (description="PLWC7 signal offset", quantity="1")
<i>Int1d</i>	PLWC8 (description="PLWC8 signal offset", quantity="1")
<i>Int1d</i>	PLWC9 (description="PLWC9 signal offset", quantity="1")
<i>Int1d</i>	PLWD1 (description="PLWD1 signal offset", quantity="1")
<i>Int1d</i>	PLWD2 (description="PLWD2 signal offset", quantity="1")
<i>Int1d</i>	PLWD3 (description="PLWD3 signal offset", quantity="1")
<i>Int1d</i>	PLWD4 (description="PLWD4 signal offset", quantity="1")

<i>Int1d</i>	PLWD5 (description="PLWD5 signal offset", quantity="1")
<i>Int1d</i>	PLWD6 (description="PLWD6 signal offset", quantity="1")
<i>Int1d</i>	PLWD7 (description="PLWD7 signal offset", quantity="1")
<i>Int1d</i>	PLWD8 (description="PLWD8 signal offset", quantity="1")
<i>Int1d</i>	PLWE1 (description="PLWE1 signal offset", quantity="1")
<i>Int1d</i>	PLWE2 (description="PLWE2 signal offset", quantity="1")
<i>Int1d</i>	PLWE3 (description="PLWE3 signal offset", quantity="1")
<i>Int1d</i>	PLWE4 (description="PLWE4 signal offset", quantity="1")
<i>Int1d</i>	PLWE5 (description="PLWE5 signal offset", quantity="1")
<i>Int1d</i>	PLWE6 (description="PLWE6 signal offset", quantity="1")
<i>Int1d</i>	PLWE7 (description="PLWE7 signal offset", quantity="1")
<i>Int1d</i>	PLWE8 (description="PLWE8 signal offset", quantity="1")
<i>Int1d</i>	PLWE9 (description="PLWE9 signal offset", quantity="1")
<i>Int1d</i>	PLWDP1 (description="PLWDP1 signal offset", quantity="1")
<i>Int1d</i>	PLWDP2 (description="PLWDP2 signal offset", quantity="1")
<i>Int1d</i>	PLWR1 (description="PLWR1 signal offset", quantity="1")
<i>Int1d</i>	PLWT1 (description="PLWT1 signal offset", quantity="1")
<i>Int1d</i>	PLWT2 (description="PLWT2 signal offset", quantity="1")
<i>Int1d</i>	PTCP3 (description="PTCP3 signal offset", quantity="1")
<i>Int1d</i>	PTCP2 (description="PTCP2 signal offset", quantity="1")
<i>Int1d</i>	PTCP1 (description="PTCP1 signal offset", quantity="1")
<i>Long1d</i>	obsid (description="Observation ID", quantity="1")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

6.2.30. SPIRECAL Product - Photometer Optical Crosstalk Table

<i>product</i> (type="SCalPhotOptCross", description="Photometer Optical Crosstalk Table")	
<i>Metadata</i>	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
StringParameter	fileName (description="null")
StringParameter	version (description="null")

<i>Columns</i>	
<i>table dataset</i>	(name="PSW", description="Table for PSW array")
<i>Metadata</i>	
<i>Columns</i>	
<i>String1d</i>	names (description="Channel names", quantity="1")
<i>Double1d</i>	PSWA1 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWA2 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWA3 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWA4 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWA5 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWA6 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWA7 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWA8 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWA9 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWA10 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWA11 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWA12 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWA13 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWA14 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWA15 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWB1 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWB2 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWB3 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWB4 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWB5 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWB6 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWB7 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWB8 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWB9 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWB10 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWB11 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWB12 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWB13 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWB14 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWB15 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWB16 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWC1 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWC2 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWC3 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWC4 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWC5 (description="Crosstalk values", quantity="1")

<i>Double1d</i>	PSWC6 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWC7 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWC8 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWC9 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWC10 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWC11 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWC12 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWC13 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWC14 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWC15 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWD1 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWD2 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWD3 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWD4 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWD5 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWD6 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWD7 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWD8 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWD9 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWD10 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWD11 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWD12 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWD13 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWD14 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWD15 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWD16 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWE1 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWE2 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWE3 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWE4 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWE5 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWE6 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWE7 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWE8 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWE9 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWE10 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWE11 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWE12 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWE13 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWE14 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWE15 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWF1 (description="Crosstalk values", quantity="1")

<i>Double1d</i>	PSWF2 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWF3 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWF4 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWF5 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWF6 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWF7 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWF8 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWF9 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWF10 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWF11 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWF12 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWF13 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWF14 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWF15 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWF16 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWG1 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWG2 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWG3 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWG4 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWG5 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWG6 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWG7 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWG8 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWG9 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWG10 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWG11 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWG12 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWG13 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWG14 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWG15 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWH1 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWH2 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWH3 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWH4 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWH5 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWH6 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWH7 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWH8 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWH9 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWH10 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWH11 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWH12 (description="Crosstalk values", quantity="1")

<i>Double1d</i>	PSWH13 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWH14 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWH15 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWH16 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWJ1 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWJ2 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWJ3 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWJ4 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWJ5 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWJ6 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWJ7 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWJ8 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWJ9 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWJ10 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWJ11 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWJ12 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWJ13 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWJ14 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	PSWJ15 (description="Crosstalk values", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="PMW", description="Table for PMW array")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="PLW", description="Table for PLW array")

6.2.31. SPIRECAL Product - Photometer Pcal Table

<i>product (type="PhotPcal", description="Photometer Pcal Table")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")

DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
DoubleParameter	biasFreq (description="Bias frequency", quantity="Hz")
StringParameter	elecSide (description="Electronic side", quantity="Hz")
StringParameter	modelName (description="Model name attached to this product", quantity="Hz")
StringParameter	formatVersion (description="Version of product format", quantity="Hz")
StringParameter	missionConfig (description="Mission configuration", quantity="Hz")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
StringParameter	origin (description="Site that created the product", quantity="arcsec a-1")
StringParameter	type (description="Product Type Identification", quantity="arcsec a-1")
StringParameter	description (description="Name of this product", quantity="arcsec a-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in the engineering conversion", quantity="arcsec a-1")
StringParameter	level (description="The level of the product", quantity="arcsec a-1")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec a-1")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec a-1")
StringParameter	signalTable (description="Name of the signal table", quantity="arcsec a-1")
LongParameter	maskDead (description="Mask value for dead channel", quantity="arcsec a-1")
LongParameter	maskMaster (description="Mask value for master bit", quantity="arcsec a-1")
LongParameter	maskNoisy (description="Mask value for noisy channel", quantity="arcsec a-1")
LongParameter	maskSlow (description="Mask value for slow channel", quantity="arcsec a-1")

BooleanParameter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="arcsec a-1")
DoubleParameter	ratioTruncatedPLW (description="Maximum ratio of out-of-range values to total number of values in PLW data", quantity="arcsec a-1")
DoubleParameter	ratioTruncatedPMW (description="Maximum ratio of out-of-range values to total number of values in PMW data", quantity="arcsec a-1")
DoubleParameter	ratioTruncatedPSW (description="Maximum ratio of out-of-range values to total number of values in PSW data", quantity="arcsec a-1")
DoubleParameter	ratioTruncatedPTC (description="Total fraction of out-of-range values for PTC", quantity="arcsec a-1")
LongParameter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="arcsec a-1")
LongParameter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="arcsec a-1")
LongParameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="arcsec a-1")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="arcsec a-1")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="arcsec a-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
BooleanParameter	rcRollApp (description="RC roll correction applied", quantity="ms/min")
DoubleParameter	subkTempDrift (description="Drift measured by the SubK temperature probe", quantity="K")
LongParameter	maskNotChoppedToSky (description="Mask value for channel not chopped to sky", quantity="K")
DoubleParameter	plwBiasAmpl (description="PLW bias amplitude", quantity="V")
DoubleParameter	pmwBiasAmpl (description="PMW bias amplitude", quantity="V")
DoubleParameter	pswBiasAmpl (description="PSW bias amplitude", quantity="V")
DoubleParameter	ptcBiasAmpl (description="PTC bias amplitude", quantity="V")
DoubleParameter	plwBiasPhase (description="PLW bias phase", quantity="rad")
DoubleParameter	pmwBiasPhase (description="PMW bias phase", quantity="rad")
DoubleParameter	pswBiasPhase (description="PSW bias phase", quantity="rad")
DoubleParameter	ptcBiasPhase (description="PTC bias phase", quantity="rad")

LongParameter	scanLineNum (description="Scan line number", quantity="rad")
LongParameter	numberBadVoltageOffsetPLW (description="Number of PLW bolometers with bad voltage offset resets", quantity="rad")
LongParameter	numberBadVoltageOffsetPMW (description="Number of PMW bolometers with bad voltage offset resets", quantity="rad")
LongParameter	numberBadVoltageOffsetPSW (description="Number of PSW bolometers with bad voltage offset resets", quantity="rad")
StringParameter	version (description="Version", quantity="rad")
LongParameter	level05Index (description="The index of the corresponding Level-0.5 scan", quantity="rad")
Columns	
table dataset	(name="PSW", description="Table for PSW array")
Metadata	
Columns	
StringId	names (description="Channel names", quantity="1")
BoolId	hasData (description=" Indicates whether detector was present (True/False)", quantity="1")
DoubleId	baseMean (description="Ensemble means of base levels", quantity="V")
DoubleId	baseStdDev (description="Std.Dev. of Mean Base Levels", quantity="V")
DoubleId	signalDiffMean (description="Mean of Signal Differences", quantity="V")
DoubleId	signalDiffStdDev (description="Std.Dev. of Signal Differences", quantity="V")
DoubleId	flashMean (description=" Ensemble Mean of Flash Levels", quantity="V")
DoubleId	baseNoise (description=" Base Noise = Sqrt(SumOfSquares(Flash-Off Std.Dev.)/NumFlashes)", quantity="V")
DoubleId	flashStdDev (description=" Std.Dev. of Flash Levels", quantity="V")
DoubleId	stdDevOfMeanSignalDifferences (description="Std.Dev. of Mean Signal Differences", quantity="V")
DoubleId	flashStableSamples (description="Mean # of Samples in the stable parts of the flash-on intervals", quantity="1")
DoubleId	baseStableSamples (description="Mean # of Samples in the stable parts of the flash-off intervals", quantity="1")
DoubleId	settleTimeOnMean (description="Mean of duration of start of flash intervals prior to stability", quantity="ms")
DoubleId	settleTimeOnStdDev (description="StdDev. of duration of start of flash intervals prior to stability", quantity="ms")
DoubleId	settleTimeOffMean (description="Mean of duration of start of base level intervals prior to stability", quantity="ms")
DoubleId	settleTimeOffStdDev (description="StdDev of duration of start of base level intervals prior to stability", quantity="ms")
IntId	numFlashes (description="Number of base level/flash pairs used in calc.", quantity="1")
DoubleId	tauOnMean (description="Mean of Flash-on Time Constant", quantity="1")
DoubleId	tauOnStdDev (description="StdDev of Flash-on Time Constant", quantity="1")

<i>BoolId</i>	isOnFitSuccess (description="Success of Flash Time Constant (True/False)", quantity="1")
<i>DoubleId</i>	tauOffMean (description="Mean of Base Level Time Constant", quantity="1")
<i>DoubleId</i>	tauOffStdDev (description="Std.Dev. of Base Level Time Constant", quantity="1")
<i>BoolId</i>	isOffFitSuccess (description="Success of Base Level Time Constant (True/False)", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="PMW", description="Table for PMW array")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="PLW", description="Table for PLW array")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

6.2.32. SPIRECAL Product - Photometer Pcal Table

<i>product (type="PhotPcal", description="Photometer Pcal Table")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
DoubleParameter	biasFreq (description="Bias frequency", quantity="Hz")

StringParameter	elecSide (description="Electronic side", quantity="Hz")
StringParameter	modelName (description="Model name attached to this product", quantity="Hz")
StringParameter	formatVersion (description="Version of product format", quantity="Hz")
StringParameter	missionConfig (description="Mission configuration", quantity="Hz")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
StringParameter	origin (description="Site that created the product", quantity="arcsec a-1")
StringParameter	type (description="Product Type Identification", quantity="arcsec a-1")
StringParameter	description (description="Name of this product", quantity="arcsec a-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in the engineering conversion", quantity="arcsec a-1")
StringParameter	level (description="The level of the product", quantity="arcsec a-1")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec a-1")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec a-1")
StringParameter	signalTable (description="Name of the signal table", quantity="arcsec a-1")
LongParameter	maskDead (description="Mask value for dead channel", quantity="arcsec a-1")
LongParameter	maskMaster (description="Mask value for master bit", quantity="arcsec a-1")
LongParameter	maskNoisy (description="Mask value for noisy channel", quantity="arcsec a-1")
LongParameter	maskSlow (description="Mask value for slow channel", quantity="arcsec a-1")
BooleanParameter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="arcsec a-1")
DoubleParameter	ratioTruncatedPLW (description="Maximum ratio of out-of-range values to total number of values in PLW data", quantity="arcsec a-1")
DoubleParameter	ratioTruncatedPMW (description="Maximum ratio of out-of-range values to total number of values in PMW data", quantity="arcsec a-1")
DoubleParameter	ratioTruncatedPSW (description="Maximum ratio of out-of-range values to total number of values in PSW data", quantity="arcsec a-1")
DoubleParameter	ratioTruncatedPTC (description="Total fraction of out-of-range values for PTC", quantity="arcsec a-1")

LongParameter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="arcsec a-1")
LongParameter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="arcsec a-1")
LongParameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="arcsec a-1")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="arcsec a-1")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="arcsec a-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
BooleanParameter	rcRollApp (description="RC roll correction applied", quantity="ms/min")
DoubleParameter	subkTempDrift (description="Drift measured by the SubK temperature probe", quantity="K")
LongParameter	maskNotChoppedToSky (description="Mask value for channel not chopped to sky", quantity="K")
DoubleParameter	plwBiasAmpl (description="PLW bias amplitude", quantity="V")
DoubleParameter	pmwBiasAmpl (description="PMW bias amplitude", quantity="V")
DoubleParameter	pswBiasAmpl (description="PSW bias amplitude", quantity="V")
DoubleParameter	ptcBiasAmpl (description="PTC bias amplitude", quantity="V")
DoubleParameter	plwBiasPhase (description="PLW bias phase", quantity="rad")
DoubleParameter	pmwBiasPhase (description="PMW bias phase", quantity="rad")
DoubleParameter	pswBiasPhase (description="PSW bias phase", quantity="rad")
DoubleParameter	ptcBiasPhase (description="PTC bias phase", quantity="rad")
LongParameter	scanLineNum (description="Scan line number", quantity="rad")
LongParameter	numberBadVoltageOffsetPLW (description="Number of PLW bolometers with bad voltage offset resets", quantity="rad")
LongParameter	numberBadVoltageOffsetPMW (description="Number of PMW bolometers with bad voltage offset resets", quantity="rad")
LongParameter	numberBadVoltageOffsetPSW (description="Number of PSW bolometers with bad voltage offset resets", quantity="rad")
BooleanParameter	coolerBurpDetected (description="Indicates a cooler burp", quantity="rad")
StringParameter	version (description="Version", quantity="rad")

LongParameter	level05Index (description="The index of the corresponding Level-0.5 scan", quantity="rad")
Columns	
table dataset	(name="PSW", description="Table for PSW array")
Metadata	
Columns	
StringId	names (description="Channel names", quantity="1")
BoolId	hasData (description=" Indicates whether detector was present (True/False)", quantity="1")
DoubleId	baseMean (description="Ensemble means of base levels", quantity="V")
DoubleId	baseStdDev (description="Std.Dev. of Mean Base Levels", quantity="V")
DoubleId	signalDiffMean (description="Mean of Signal Differences", quantity="V")
DoubleId	signalDiffStdDev (description="Std.Dev. of Signal Differences", quantity="V")
DoubleId	flashMean (description=" Ensemble Mean of Flash Levels", quantity="V")
DoubleId	baseNoise (description=" Base Noise = Sqrt(SumOfSquares(Flash-Off Std.Dev.)/NumFlashes)", quantity="V")
DoubleId	flashStdDev (description=" Std.Dev. of Flash Levels", quantity="V")
DoubleId	stdDevOfMeanSignalDifferences (description="Std.Dev. of Mean Signal Differences", quantity="V")
DoubleId	flashStableSamples (description="Mean # of Samples in the stable parts of the flash-on intervals", quantity="1")
DoubleId	baseStableSamples (description="Mean # of Samples in the stable parts of the flash-off intervals", quantity="1")
DoubleId	settleTimeOnMean (description="Mean of duration of start of flash intervals prior to stability", quantity="ms")
DoubleId	settleTimeOnStdDev (description="StdDev. of duration of start of flash intervals prior to stability", quantity="ms")
DoubleId	settleTimeOffMean (description="Mean of duration of start of base level intervals prior to stability", quantity="ms")
DoubleId	settleTimeOffStdDev (description="StdDev of duration of start of base level intervals prior to stability", quantity="ms")
IntId	numFlashes (description="Number of base level/flash pairs used in calc.", quantity="1")
DoubleId	tauOnMean (description="Mean of Flash-on Time Constant", quantity="1")
DoubleId	tauOnStdDev (description="StdDev of Flash-on Time Constant", quantity="1")
BoolId	isOnFitSuccess (description="Success of Flash Time Constant (True/False)", quantity="1")
DoubleId	tauOffMean (description="Mean of Base Level Time Constant", quantity="1")
DoubleId	tauOffStdDev (description="Std.Dev. of Base Level Time Constant", quantity="1")
BoolId	isOffFitSuccess (description="Success of Base Level Time Constant (True/False)", quantity="1")
	()

<i>table dataset</i>	Dataset similar to the one above with (name="PMW", description="Table for PMW array")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="PLW", description="Table for PLW array")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

6.2.33. SPIRECAL Product - Photometer Pcal Response Model Table

<i>product (type="SCalPhotPcalModel", description="Photometer Pcal Response Model Table")</i>	
<i>Metadata</i>	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	author (description="Author of the data")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
StringParameter	fileName (description="null")
StringParameter	version (description="null")
StringParameter	fileOrigin (description="Origin of the data")
<i>Columns</i>	
<i>table dataset</i>	(name="PSW", description="Channel table for PSW array")
<i>Metadata</i>	
<i>Columns</i>	
<i>DoubleId</i>	time (description="Time", quantity="s")
<i>DoubleId</i>	PSWA1 (description="Normalised Pcal Response", quantity="1")
<i>DoubleId</i>	PSWA2 (description="Normalised Pcal Response", quantity="1")
<i>DoubleId</i>	PSWA3 (description="Normalised Pcal Response", quantity="1")
<i>DoubleId</i>	PSWA4 (description="Normalised Pcal Response", quantity="1")
<i>DoubleId</i>	PSWA5 (description="Normalised Pcal Response", quantity="1")
<i>DoubleId</i>	PSWA6 (description="Normalised Pcal Response", quantity="1")
<i>DoubleId</i>	PSWA7 (description="Normalised Pcal Response", quantity="1")
<i>DoubleId</i>	PSWA8 (description="Normalised Pcal Response", quantity="1")
<i>DoubleId</i>	PSWA9 (description="Normalised Pcal Response", quantity="1")

<i>Double1d</i>	PSWG1 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	PSWG2 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	PSWG3 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	PSWG4 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	PSWG5 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	PSWG6 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	PSWG7 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	PSWG8 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	PSWG9 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	PSWG10 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	PSWG11 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	PSWG12 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	PSWG13 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	PSWG14 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	PSWG15 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	PSWH1 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	PSWH2 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	PSWH3 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	PSWH4 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	PSWH5 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	PSWH6 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	PSWH7 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	PSWH8 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	PSWH9 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	PSWH10 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	PSWH11 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	PSWH12 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	PSWH13 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	PSWH14 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	PSWH15 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	PSWH16 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	PSWJ1 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	PSWJ2 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	PSWJ3 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	PSWJ4 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	PSWJ5 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	PSWJ6 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	PSWJ7 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	PSWJ8 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	PSWJ9 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	PSWJ10 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	PSWJ11 (description="Normalised Pcal Response", quantity="1")

<i>DoubleId</i>	PSWJ12 (description="Normalised Pcal Response", quantity="1")
<i>DoubleId</i>	PSWJ13 (description="Normalised Pcal Response", quantity="1")
<i>DoubleId</i>	PSWJ14 (description="Normalised Pcal Response", quantity="1")
<i>DoubleId</i>	PSWJ15 (description="Normalised Pcal Response", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="PMW", description="Channel table for PMW array")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="PLW", description="Channel table for PLW array")

6.2.34. SPIRECAL Product - Spire Beam correction product

<i>product (type="SCalPhotRadialCorrBeam", description="Spire Beam correction product")</i>	
<i>Metadata</i>	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	author (description="Author of the Data")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
StringParameter	fileName (description="Name of file when exported")
StringParameter	version (description="null")
DoubleParameter	freqEffPsw (description="Effective frequency at which the measured PSW beam profile applies", quantity="GHz")
DoubleParameter	beamNeptunePswArc (description="PSW beam area in square arcsec as measured on Neptune", quantity="arcsec ² ")
DoubleParameter	beamNeptunePswArcErr (description="Error in square arcsec on PSW beam area as measured on Neptune", quantity="arcsec ² ")
DoubleParameter	beamNeptunePswSr (description="PSW beam area in steradians as measured on Neptune", quantity="sr")
DoubleParameter	alphaNeptunePsw (description="Neptune spectral index used for PSW", quantity="sr")
DoubleParameter	beamPipelinePswSr (description="PSW beam area in steradians for spectral index alpha=-1 (as assumed in pipeline)", quantity="sr")
DoubleParameter	beamPipelinePswArc (description="PSW beam area in square arcsec for spectral index alpha=-1 (as assumed in pipeline)", quantity="arcsec ² ")
DoubleParameter	freqEffPmw (description="Effective frequency at which the measured PMW beam profile applies", quantity="GHz")

DoubleParameter	beamNeptunePmwArc (description="PMW beam area in square arcsec as measured on Neptune", quantity="arcsec2")
DoubleParameter	beamNeptunePmwArcErr (description="Error in square arcsec on PMW beam area as measured on Neptune", quantity="arcsec2")
DoubleParameter	beamNeptunePmwSr (description="PMW beam area in steradians as measured on Neptune", quantity="sr")
DoubleParameter	alphaNeptunePmw (description="Neptune spectral index used for PMW", quantity="sr")
DoubleParameter	beamPipelinePmwSr (description="PMW beam area in steradians for spectral index alpha=-1 (as assumed in pipeline)", quantity="sr")
DoubleParameter	beamPipelinePmwArc (description="PMW beam area in square arcsec for spectral index alpha=-1 (as assumed in pipeline)", quantity="arcsec2")
DoubleParameter	freqEffPlw (description="Effective frequency at which the measured PLW beam profile applies", quantity="GHz")
DoubleParameter	beamNeptunePlwArc (description="PLW beam area in square arcsec as measured on Neptune", quantity="arcsec2")
DoubleParameter	beamNeptunePlwArcErr (description="Error in square arcsec on PLW beam area as measured on Neptune", quantity="arcsec2")
DoubleParameter	beamNeptunePlwSr (description="PLW beam area in steradians as measured on Neptune", quantity="sr")
DoubleParameter	alphaNeptunePlw (description="Neptune spectral index used for PLW", quantity="sr")
DoubleParameter	beamPipelinePlwSr (description="PLW beam area in steradians for spectral index alpha=-1 (as assumed in pipeline)", quantity="sr")
DoubleParameter	beamPipelinePlwArc (description="PLW beam area in square arcsec for spectral index alpha=-1 (as assumed in pipeline)", quantity="arcsec2")
StringParameter	dataOrigin (description="Origin of the data", quantity="arcsec2")
DoubleParameter	gamma (description="Exponent describing FWHM dependence on frequency", quantity="arcsec2")
Columns	
table dataset	(name="constant", description="[DEPRECATED, set to zero] Frequency-independent constant part of the radial beam profile")
Metadata	
Columns	
DoubleId	radius (description="null", quantity="arcsec")
DoubleId	PSW (description="null", quantity="none")
DoubleId	PMW (description="null", quantity="none")
DoubleId	PLW (description="null", quantity="none")
	()
table dataset	Dataset similar to the one above with (name="core", description="Frequency-dependent core part of the radial beam profile")
	()
table dataset	Dataset similar to the one above with (name="normArea", description="Area as a function of radius, normalised by final value")

6.2.35. SPIRECAL Product - Photometer Relative Spectral Response Function

<i>product (type="SCalPhotRsrfr", description="Photometer Relative Spectral Response Function")</i>			
<i>Metadata</i>			
StringParameter	instrument	(description="Instrument attached to this product")	
StringParameter	creator	(description="Generator of this product")	
DateParameter	creationDate	(description="Creation date of this product")	
DateParameter	startDate	(description="Start date of this product")	
DateParameter	endDate	(description="End date of this product")	
StringParameter	modelName	(description="Model name attached to this product")	
StringParameter	formatVersion	(description="Version of product format")	
StringParameter	type	(description="Product Type Identification")	
StringParameter	description	(description="Name of this product")	
StringParameter	fileName	(description="null")	
DoubleParameter	waveguidePSW	(description="Waveguide diameter for PSW", quantity="m-m")	
DoubleParameter	waveguidePMW	(description="Waveguide diameter for PMW", quantity="m-m")	
DoubleParameter	waveguidePLW	(description="Waveguide diameter for PLW", quantity="m-m")	
StringParameter	version	(description="null", quantity="mm")	
DoubleParameter	waveguidePsw	(description="Waveguide diameter", quantity="mm")	
DoubleParameter	waveguidePmw	(description="Waveguide diameter", quantity="mm")	
DoubleParameter	waveguidePlw	(description="Waveguide diameter", quantity="mm")	
<i>Columns</i>			
<i>table dataset (name="rsrfr", description="Photometer RSRFs")</i>			
<i>Metadata</i>			
<i>Columns</i>			
<i>DoubleId</i>	frequency	(description="Frequency", quantity="GHz")	
<i>DoubleId</i>	wavenumber	(description="Wavenumber", quantity="cm-1")	
<i>DoubleId</i>	psw	(description="PSW Transmission", quantity="1")	
<i>DoubleId</i>	pmw	(description="PMW Transmission", quantity="1")	
<i>DoubleId</i>	plw	(description="PLW Transmission", quantity="1")	

6.2.36. SPIRECAL Product - Photometer Temperature Drift Correction Calibration Table

<i>product (type="SCalPhotTempDriftCorr", description="Photometer Temperature Drift Correction Calibration Table")</i>			
<i>Metadata</i>			
StringParameter	instrument	(description="Instrument attached to this product")	

StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	biasMode (description="Nominal/bright source mode")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
DateParameter	respControlStamp (description="Responsivity calibration product control date stamp")
StringParameter	fileName (description="null")
DoubleParameter	plwBiasAmpl (description="PLW bias voltage amplitude", quantity="V")
DoubleParameter	pmwBiasAmpl (description="PMW bias voltage amplitude", quantity="V")
DoubleParameter	pswBiasAmpl (description="PSW bias voltage amplitude", quantity="V")
StringParameter	dependency (description="Keywords on which product depends", quantity="V")
StringParameter	version (description="null", quantity="V")
DoubleParameter	pswBathTemp (description="PSW reference bath temperature", quantity="K")
DoubleParameter	pmwBathTemp (description="PMW reference bath temperature", quantity="K")
DoubleParameter	plwBathTemp (description="PLW reference bath temperature", quantity="K")
StringParameter	sourceTable (description="null", quantity="K")
DoubleParameter	degreeLIADephasing (description="LIA de-phasing angle", quantity="deg")
<i>Columns</i>	
<i>table dataset</i>	(name="PSW", description="Table for PSW array")
<i>Metadata</i>	
DoubleParameter	pswT1RefVoltage (description="PSW T1 reference voltage", quantity="V")
DoubleParameter	pswT1RefVoltageError (description="PSW T1 reference voltage uncertainty", quantity="V")
BooleanParameter	pswT1RefVoltageFlag (description="PSW T1 reference voltage flag", quantity="V")
DoubleParameter	pswT2RefVoltage (description="PSW T2 reference voltage", quantity="V")
DoubleParameter	pswT2RefVoltageError (description="PSW T2 reference voltage uncertainty", quantity="V")
BooleanParameter	pswT2RefVoltageFlag (description="PSW T2 reference voltage flag", quantity="V")
DoubleParameter	pswDP1RefVoltage (description="PSW DK1 reference voltage", quantity="V")
DoubleParameter	pswDP1RefVoltageError (description="PSW DK1 reference voltage uncertainty", quantity="V")
BooleanParameter	pswDP1RefVoltageFlag (description="PSW DK1 reference voltage flag", quantity="V")

DoubleParameter	pswDP2RefVoltage (description="PSW DK2 reference voltage", quantity="V")
DoubleParameter	pswDP2RefVoltageError (description="PSW DK2 reference voltage uncertainty", quantity="V")
BooleanParameter	pswDP2RefVoltageFlag (description="PSW DK2 reference voltage flag", quantity="V")
StringParameter	thermistorSelect (description="null", quantity="V")
Columns	
StringId	names (description="Channel names", quantity="1")
DoubleId	aT1 (description="null", quantity="none")
DoubleId	aT1Error (description="null", quantity="none")
DoubleId	bT1 (description="null", quantity="none")
DoubleId	bT1Error (description="null", quantity="none")
BoolId	abT1Flag (description="null", quantity="none")
DoubleId	aT2 (description="null", quantity="none")
DoubleId	aT2Error (description="null", quantity="none")
DoubleId	bT2 (description="null", quantity="none")
DoubleId	bT2Error (description="null", quantity="none")
BoolId	abT2Flag (description="null", quantity="none")

6.2.37. SPIRECAL Product - Photometer Temperature Drift Correction Calibration Table

<i>product (type="SCalPhotTempDriftCorr", description="Photometer Temperature Drift Correction Calibration Table")</i>	
Metadata	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	biasMode (description="Nominal/bright source mode")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
DateParameter	respControlStamp (description="Responsivity calibration product control date stamp")
StringParameter	fileName (description="null")
DoubleParameter	plwBiasAmpl (description="PLW bias voltage amplitude", quantity="V")
DoubleParameter	pmwBiasAmpl (description="PMW bias voltage amplitude", quantity="V")
DoubleParameter	pswBiasAmpl (description="PSW bias voltage amplitude", quantity="V")

StringParameter	dependency (description="Keywords on which product depends", quantity="V")
StringParameter	version (description="null", quantity="V")
DoubleParameter	pswBathTemp (description="PSW reference bath temperature", quantity="K")
DoubleParameter	pmwBathTemp (description="PMW reference bath temperature", quantity="K")
DoubleParameter	plwBathTemp (description="PLW reference bath temperature", quantity="K")
StringParameter	sourceTable (description="null", quantity="K")
DoubleParameter	degreeLIADephasing (description="LIA dephasing angle", quantity="deg")
<i>Columns</i>	
<i>table dataset</i>	(name="PSW", description="Table for PSW array")
<i>Metadata</i>	
DoubleParameter	pswT1RefVoltage (description="PSW T1 reference voltage", quantity="V")
DoubleParameter	pswT1RefVoltageError (description="PSW T1 reference voltage uncertainty", quantity="V")
BooleanParameter	pswT1RefVoltageFlag (description="PSW T1 reference voltage flag", quantity="V")
DoubleParameter	pswT2RefVoltage (description="PSW T2 reference voltage", quantity="V")
DoubleParameter	pswT2RefVoltageError (description="PSW T2 reference voltage uncertainty", quantity="V")
BooleanParameter	pswT2RefVoltageFlag (description="PSW T2 reference voltage flag", quantity="V")
DoubleParameter	pswDP1RefVoltage (description="PSW DK1 reference voltage", quantity="V")
DoubleParameter	pswDP1RefVoltageError (description="PSW DK1 reference voltage uncertainty", quantity="V")
BooleanParameter	pswDP1RefVoltageFlag (description="PSW DK1 reference voltage flag", quantity="V")
DoubleParameter	pswDP2RefVoltage (description="PSW DK2 reference voltage", quantity="V")
DoubleParameter	pswDP2RefVoltageError (description="PSW DK2 reference voltage uncertainty", quantity="V")
BooleanParameter	pswDP2RefVoltageFlag (description="PSW DK2 reference voltage flag", quantity="V")
StringParameter	thermistorSelect (description="null", quantity="V")
<i>Columns</i>	
<i>StringId</i>	names (description="Channel names", quantity="1")
<i>DoubleId</i>	aT1 (description="null", quantity="none")
<i>DoubleId</i>	aT1Error (description="null", quantity="none")
<i>DoubleId</i>	bT1 (description="null", quantity="none")
<i>DoubleId</i>	bT1Error (description="null", quantity="none")
<i>BoolId</i>	abT1Flag (description="null", quantity="none")
<i>DoubleId</i>	aT2 (description="null", quantity="none")
<i>DoubleId</i>	aT2Error (description="null", quantity="none")

<i>DoubleId</i>	bT2 (description="null", quantity="none")
<i>DoubleId</i>	bT2Error (description="null", quantity="none")
<i>BoolId</i>	abT2Flag (description="null", quantity="none")

6.2.38. SPIRECAL Product - Photometer Temperature Drift Correction Calibration Table

<i>product</i> (type="SCalPhotTempDriftCorr", description="Photometer Temperature Drift Correction Calibration Table")	
<i>Metadata</i>	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	biasMode (description="Nominal/bright source mode")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
DateParameter	respControlStamp (description="Responsivity calibration product control date stamp")
StringParameter	fileName (description="null")
DoubleParameter	plwBiasAmpl (description="PLW bias voltage amplitude", quantity="V")
DoubleParameter	pmwBiasAmpl (description="PMW bias voltage amplitude", quantity="V")
DoubleParameter	pswBiasAmpl (description="PSW bias voltage amplitude", quantity="V")
StringParameter	dependency (description="Keywords on which product depends", quantity="V")
StringParameter	version (description="null", quantity="V")
DoubleParameter	degreePSWLIADephasing (description="PSW LIA dephasing angle", quantity="deg")
DoubleParameter	degreePMWLIADephasing (description="PMW LIA dephasing angle", quantity="deg")
DoubleParameter	degreePLWLIADephasing (description="PLW LIA dephasing angle", quantity="deg")
DoubleParameter	pswBathTemp (description="PSW reference bath temperature", quantity="K")
DoubleParameter	pmwBathTemp (description="PMW reference bath temperature", quantity="K")
DoubleParameter	plwBathTemp (description="PLW reference bath temperature", quantity="K")
StringParameter	sourceTable (description="null", quantity="K")
<i>Columns</i>	
<i>table dataset</i>	(name="PSW", description="Table for PSW array")
<i>Metadata</i>	

DoubleParameter	pswT1RefVoltage (description="PSW T1 reference voltage", quantity="V")
DoubleParameter	pswT1RefVoltageError (description="PSW T1 reference voltage uncertainty", quantity="V")
BooleanParameter	pswT1RefVoltageFlag (description="PSW T1 reference voltage flag", quantity="V")
DoubleParameter	pswT2RefVoltage (description="PSW T2 reference voltage", quantity="V")
DoubleParameter	pswT2RefVoltageError (description="PSW T2 reference voltage uncertainty", quantity="V")
BooleanParameter	pswT2RefVoltageFlag (description="PSW T2 reference voltage flag", quantity="V")
DoubleParameter	pswDP1RefVoltage (description="PSW DK1 reference voltage", quantity="V")
DoubleParameter	pswDP1RefVoltageError (description="PSW DK1 reference voltage uncertainty", quantity="V")
BooleanParameter	pswDP1RefVoltageFlag (description="PSW DK1 reference voltage flag", quantity="V")
DoubleParameter	pswDP2RefVoltage (description="PSW DK2 reference voltage", quantity="V")
DoubleParameter	pswDP2RefVoltageError (description="PSW DK2 reference voltage uncertainty", quantity="V")
BooleanParameter	pswDP2RefVoltageFlag (description="PSW DK2 reference voltage flag", quantity="V")
StringParameter	thermistorSelect (description="null", quantity="V")
<i>Columns</i>	
<i>StringId</i>	names (description="Channel names", quantity="1")
<i>DoubleId</i>	aT1 (description="null", quantity="none")
<i>DoubleId</i>	aT1Error (description="null", quantity="none")
<i>DoubleId</i>	bT1 (description="null", quantity="none")
<i>DoubleId</i>	bT1Error (description="null", quantity="none")
<i>BoolId</i>	abT1Flag (description="null", quantity="none")
<i>DoubleId</i>	aT2 (description="null", quantity="none")
<i>DoubleId</i>	aT2Error (description="null", quantity="none")
<i>DoubleId</i>	bT2 (description="null", quantity="none")
<i>DoubleId</i>	bT2Error (description="null", quantity="none")
<i>BoolId</i>	abT2Flag (description="null", quantity="none")

6.2.39. SPIRECAL Product - Photometer Temperature Drift Correction Calibration Table

<i>product (type="SCalPhotTempDriftCorr", description="Photometer Temperature Drift Correction Calibration Table")</i>	
<i>Metadata</i>	
StringParameter	instrument (description="Instrument attached to this product")

StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="null")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	biasMode (description="Nominal/bright source mode")
StringParameter	author (description="Author of the data")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
DateParameter	respControlStamp (description="Responsivity calibration product control date stamp")
StringParameter	fileName (description="null")
DoubleParameter	plwBiasAmpl (description="PLW bias voltage amplitude", quantity="V")
DoubleParameter	pmwBiasAmpl (description="PMW bias voltage amplitude", quantity="V")
DoubleParameter	pswBiasAmpl (description="PSW bias voltage amplitude", quantity="V")
StringParameter	dependency (description="Keywords on which product depends", quantity="V")
StringParameter	version (description="null", quantity="V")
DoubleParameter	degreePSWLIADephasing (description="PSW LIA dephasing angle", quantity="deg")
DoubleParameter	degreePMWLIADephasing (description="PMW LIA dephasing angle", quantity="deg")
DoubleParameter	degreePLWLIADephasing (description="PLW LIA dephasing angle", quantity="deg")
DoubleParameter	pswBathTemp (description="PSW reference bath temperature", quantity="K")
DoubleParameter	pmwBathTemp (description="PMW reference bath temperature", quantity="K")
DoubleParameter	plwBathTemp (description="PLW reference bath temperature", quantity="K")
StringParameter	sourceTable (description="null", quantity="K")
StringParameter	fileOrigin (description="Origin of the data", quantity="K")
<i>Columns</i>	
<i>table dataset</i>	(name="PSW", description="Table for PSW array")
<i>Metadata</i>	
DoubleParameter	pswT1RefVoltage (description="PSW T1 reference voltage", quantity="V")
DoubleParameter	pswT1RefVoltageError (description="PSW T1 reference voltage uncertainty", quantity="V")
BooleanParameter	pswT1RefVoltageFlag (description="PSW T1 reference voltage flag", quantity="V")
DoubleParameter	pswT2RefVoltage (description="PSW T2 reference voltage", quantity="V")
DoubleParameter	pswT2RefVoltageError (description="PSW T2 reference voltage uncertainty", quantity="V")

BooleanParameter	pswT2RefVoltageFlag (description="PSW T1 reference voltage flag", quantity="V")
DoubleParameter	pswDP1RefVoltage (description="PSW DK1 reference voltage", quantity="V")
DoubleParameter	pswDP1RefVoltageError (description="PSW DK1 reference voltage uncertainty", quantity="V")
BooleanParameter	pswDP1RefVoltageFlag (description="PSW DK1 reference voltage flag", quantity="V")
DoubleParameter	pswDP2RefVoltage (description="PSW DK2 reference voltage", quantity="V")
DoubleParameter	pswDP2RefVoltageError (description="PSW DK2 reference voltage uncertainty", quantity="V")
BooleanParameter	pswDP2RefVoltageFlag (description="PSW DK2 reference voltage flag", quantity="V")
StringParameter	thermistorSelect (description="null", quantity="V")
DoubleParameter	burpCorrParmPSW (description="null", quantity="V")
<i>Columns</i>	
<i>StringId</i>	names (description="Channel names", quantity="1")
<i>DoubleId</i>	aT1 (description="null", quantity="none")
<i>DoubleId</i>	aT1Error (description="null", quantity="none")
<i>DoubleId</i>	bT1 (description="null", quantity="none")
<i>DoubleId</i>	bT1Error (description="null", quantity="none")
<i>BoolId</i>	abT1Flag (description="null", quantity="none")
<i>DoubleId</i>	aT2 (description="null", quantity="none")
<i>DoubleId</i>	aT2Error (description="null", quantity="none")
<i>DoubleId</i>	bT2 (description="null", quantity="none")
<i>DoubleId</i>	bT2Error (description="null", quantity="none")
<i>BoolId</i>	abT2Flag (description="null", quantity="none")

6.2.40. SPIRECAL Product - Photometer Temperature Drift Correction Calibration Table

<i>product (type="SCalPhotTempDriftCorr", description="Photometer Temperature Drift Correction Calibration Table")</i>	
<i>Metadata</i>	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="null")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	biasMode (description="Nominal/bright source mode")
StringParameter	author (description="Author of the data")
StringParameter	modelName (description="Model name attached to this product")

StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
DateParameter	respControlStamp (description="Responsivity calibration product control date stamp")
StringParameter	fileName (description="null")
DoubleParameter	plwBiasAmpl (description="PLW bias voltage amplitude", quantity="V")
DoubleParameter	pmwBiasAmpl (description="PMW bias voltage amplitude", quantity="V")
DoubleParameter	pswBiasAmpl (description="PSW bias voltage amplitude", quantity="V")
StringParameter	dependency (description="Keywords on which product depends", quantity="V")
StringParameter	version (description="null", quantity="V")
StringParameter	dataOrigin (description="Origin of the data", quantity="V")
DoubleParameter	degreePSWLIADephasing (description="PSW LIA dephasing angle", quantity="deg")
DoubleParameter	degreePMWLIADephasing (description="PMW LIA dephasing angle", quantity="deg")
DoubleParameter	degreePLWLIADephasing (description="PLW LIA dephasing angle", quantity="deg")
DoubleParameter	pswBathTemp (description="PSW reference bath temperature", quantity="K")
DoubleParameter	pmwBathTemp (description="PMW reference bath temperature", quantity="K")
DoubleParameter	plwBathTemp (description="PLW reference bath temperature", quantity="K")
StringParameter	sourceTable (description="File name of the source ASCII table", quantity="K")
<i>Columns</i>	
<i>table dataset</i>	(name="PSW", description="Table for PSW array")
<i>Metadata</i>	
DoubleParameter	pswT1RefVoltage (description="PSW T1 reference voltage", quantity="V")
DoubleParameter	pswT1RefVoltageError (description="PSW T1 reference voltage uncertainty", quantity="V")
BooleanParameter	pswT1RefVoltageFlag (description="PSW T1 reference voltage flag", quantity="V")
DoubleParameter	pswT2RefVoltage (description="PSW T2 reference voltage", quantity="V")
DoubleParameter	pswT2RefVoltageError (description="PSW T2 reference voltage uncertainty", quantity="V")
BooleanParameter	pswT2RefVoltageFlag (description="PSW T2 reference voltage flag", quantity="V")
DoubleParameter	pswDP1RefVoltage (description="PSW DP1 reference voltage", quantity="V")
DoubleParameter	pswDP1RefVoltageError (description="PSW DP1 reference voltage uncertainty", quantity="V")
BooleanParameter	pswDP1RefVoltageFlag (description="PSW DP1 reference voltage flag", quantity="V")

DoubleParameter	pswDP2RefVoltage (description="PSW DP2 reference voltage", quantity="V")
DoubleParameter	pswDP2RefVoltageError (description="PSW DP2 reference voltage uncertainty", quantity="V")
BooleanParameter	pswDP2RefVoltageFlag (description="PSW DP2 reference voltage flag", quantity="V")
DoubleParameter	dVT2overdVT1 (description="dVt2 by dVT1", quantity="V")
DoubleParameter	dVT2overdVT1Error (description="dVT2 by dVT1 uncertainty", quantity="V")
BooleanParameter	dVT2overdVT1Flag (description="dVT2 by dVT1 flag", quantity="V")
DoubleParameter	dVDP1overdVT1 (description="The derivative of first dark pixel over the first thermistor", quantity="V")
DoubleParameter	dVDP1overdVT1Error (description="dVP1 by dVT1 uncertainty", quantity="V")
BooleanParameter	dVDP1overdVT1Flag (description="dVP1 by dVT1 flag", quantity="V")
DoubleParameter	dVDP2overdVT1 (description="The derivative of second dark pixel over the first thermistor", quantity="V")
DoubleParameter	dVDP2overdVT1Error (description="dVP2 by dVT1 uncertainty", quantity="V")
BooleanParameter	dVDP2overdVT1Flag (description="dVP2 by dVT1 flag", quantity="V")
DoubleParameter	dVDP1overdVT2 (description="The derivative of first dark pixel over the second thermistor", quantity="V")
DoubleParameter	dVDP1overdVT2Error (description="dVP1 by dVT2 uncertainty", quantity="V")
BooleanParameter	dVDP1overdVT2Flag (description="dVP1 by dVT2 flag", quantity="V")
DoubleParameter	dVDP2overdVT2 (description="The derivative of second dark pixel over the second thermistor", quantity="V")
DoubleParameter	dVDP2overdVT2Error (description="dVP2 by dVT2 uncertainty", quantity="V")
BooleanParameter	dVDP2overdVT2Flag (description="dVP2 by dVT2 flag", quantity="V")
StringParameter	thermistorSelect (description="Thermistor selected", quantity="V")
DoubleParameter	burpCorrParmPSW (description="Cooler burp correction parameter for PSW", quantity="V")
<i>Columns</i>	
<i>StringId</i>	names (description="Channel names", quantity="1")
<i>DoubleId</i>	aT1 (description="null", quantity="none")
<i>DoubleId</i>	aT1Error (description="null", quantity="none")
<i>DoubleId</i>	bT1 (description="null", quantity="none")
<i>DoubleId</i>	bT1Error (description="null", quantity="none")
<i>BoolId</i>	abT1Flag (description="null", quantity="none")
<i>DoubleId</i>	aT2 (description="null", quantity="none")
<i>DoubleId</i>	aT2Error (description="null", quantity="none")

	<i>DoubleId</i>	bT2 (description="null", quantity="none")
	<i>DoubleId</i>	bT2Error (description="null", quantity="none")
	<i>BoolId</i>	abT2Flag (description="null", quantity="none")

6.3. SPIRE Spectrometer Calibration Products

6.3.1. SPIRECAL Product - Spectrometer Band Edges

<i>product</i> (type="SCalSpecBandEdge", description="Spectrometer Band Edges")	
<i>Metadata</i>	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
StringParameter	fileName (description="null")
StringParameter	version (description="null")
<i>Columns</i>	
<i>table dataset</i>	(name="SSW", description="Table for SSW array")
<i>Metadata</i>	
<i>Columns</i>	
<i>StringId</i>	names (description="Channel names", quantity="1")
<i>DoubleId</i>	low (description="Low wavenumber edge", quantity="GHz")
<i>DoubleId</i>	high (description="High wavenumber edge", quantity="GHz")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="SLW", description="Table for SLW array")

6.3.2. SPIRECAL Product - Spectrometer Beam Parameters

<i>product</i> (type="SCalSpecBeamParam", description="Spectrometer Beam Parameters")	
<i>Meta- da- ta</i>	

String- Pa- rame- ter	telescope (description="Name of telescope")
String- Pa- rame- ter	instrument (description="Instrument attached to this product")
String- Pa- rame- ter	subsystem (description="Instrument Subsystem")
String- Pa- rame- ter	source (description="TM source packet name")
String- Pa- rame- ter	creator (description="Generator of this product")
String- Pa- rame- ter	object (description="Target name")
String- Pa- rame- ter	observer (description="Observer name")
String- Pa- rame- ter	proposal (description="Proposal name")
Long- Pa- rame- ter	obsid (description="Observation identifier")
Long- Pa- rame- ter	odNumber (description="Operational day number")
DatePa- rame- ter	creationDate (description="Creation date of this product")
DatePa- rame- ter	startDate (description="Start date of this product")
DatePa- rame- ter	endDate (description="End date of this product")
String- Pa-	aot (description="AOT Identifier")

parameter	
String-Parameter	aorLabel (description="AOR Label as entered in HSpot")
String-Parameter	cusMode (description="CUS observation mode")
String-Parameter	instMode (description="Instrument Mode")
String-Parameter	obsMode (description="Observation mode name")
String-Parameter	pointingMode (description="Pointing mode")
String-Parameter	commandedResolution (description="Commanded Spectral Resolution")
String-Parameter	modelName (description="Model name attached to this product")
String-Parameter	formatVersion (description="Version of product format")
String-Parameter	missionConfig (description="Mission configuration")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
String-Parameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")

parameter	
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
StringParameter	origin (description="Site that created the product", quantity="arcsec a-1")
StringParameter	type (description="Product Type Identification", quantity="arcsec a-1")
StringParameter	description (description="Name of this product", quantity="arcsec a-1")
StringParameter	processResolution (description="The resolution that is to be used or was used to process the data", quantity="arcsec a-1")
LongParameter	numScans (description="Number of scans", quantity="arcsec a-1")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec a-1")
StringParameter	freqFrame (description="Standard of rest for spectral axis", quantity="arcsec a-1")
StringParameter	apodType (description="Type of Apodization applied", quantity="arcsec a-1")

	parameter	
	String-Parameter	apodName (description="Apodization function applied", quantity="arcsec a-1")
Boolean-Parameter		phaseCorrApplied (description="Phase correction has been applied", quantity="arcsec a-1")
	String-Parameter	fileName (description="null", quantity="arcsec a-1")
	String-Parameter	dependency (description="Keywords on which product depends", quantity="arcsec a-1")
	String-Parameter	version (description="null", quantity="arcsec a-1")
<i>Columns</i>		
	com- pos- ite	(description="null")
	<i>Meta- data</i>	
	LongParameter	count (description="Set number")
	LongParameter	scanNumber (description="Scan number")
	String-Parameter	scanDir (description="Scan direction")
	DateParameter	scanStartDate (description="Start date of the FTS scan")
	DateParameter	scanEndDate (description="End date of the FTS scan")
<i>Columns</i>		
	<i>table dataset</i>	(name="SLWC3", description="null")
	<i>Metada- ta</i>	
	DoubleParameter	dec (description="Dec pointing for this channel")
	DoubleParameter	ra (description="Ra pointing for this channel")
	StringParameter	channelName (description="Channel name")

LongParameter	obsid (description="Uranus OBSID used")
StringParameter	instRsrFVersion (description="Instrument RSRF version")
StringParameter	teleRsrFVersion (description="Telescope RSRF version")
LongParameter	darkObsid (description="Dark sky OBSID used for subtraction")
StringParameter	uranusModelFile (description="Original Uranus Model File")
StringParameter	beamFile (description="Origin of Beam FWHM data")
DoubleParameter	pointingCorrApplied (description="Pointing correction applied to Uranus observation in arcsec")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>Double1d</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>Double1d</i>	pointConv (description="Extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
<i>Double1d</i>	pointConvError (description="Error of extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
<i>Double1d</i>	beamDiam (description="Diameter of the beam", quantity="arcsec")
<i>table dataset</i>	(name="SSWD4", description="null")
<i>Metadata</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
LongParameter	obsid (description="Uranus OBSID used")
StringParameter	instRsrFVersion (description="Instrument RSRF version")
StringParameter	teleRsrFVersion (description="Telescope RSRF version")
LongParameter	darkObsid (description="Dark sky OBSID used for subtraction")
StringParameter	uranusModelFile (description="Original Uranus Model File")
StringParameter	beamFile (description="Origin of Beam FWHM data")
DoubleParameter	pointingCorrApplied (description="Pointing correction applied to Uranus observation in arcsec")

QuantifiableParameter	waveunit (description="null")
Columns	
DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
DoubleId	pointConv (description="Extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
DoubleId	pointConvError (description="Error of extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
DoubleId	beamDiam (description="Diameter of the beam", quantity="arcsec")
table dataset	(name="SLWB2", description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
LongParameter	obsid (description="Uranus OBSID used")
StringParameter	instRsrFVersion (description="Instrument RSRF version")
StringParameter	teleRsrFVersion (description="Telescope RSRF version")
LongParameter	darkObsid (description="Dark sky OBSID used for subtraction")
StringParameter	uranusModelFile (description="Original Uranus Model File")
StringParameter	beamFile (description="Origin of Beam FWHM data")
DoubleParameter	pointingCorrApplied (description="Pointing correction applied to Uranus observation in arcsec")
QuantifiableParameter	waveunit (description="null")
Columns	
DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
DoubleId	pointConv (description="Extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
DoubleId	pointConvError (description="Error of extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
DoubleId	beamDiam (description="Diameter of the beam", quantity="arcsec")
table dataset	(name="SSWE5", description="null")
Meta-data	

DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
LongParameter	obsid (description="Uranus OBSID used")
StringParameter	instRsrFVersion (description="Instrument RSRF version")
StringParameter	teleRsrFVersion (description="Telescope RSRF version")
LongParameter	darkObsid (description="Dark sky OBSID used for subtraction")
StringParameter	uranusModelFile (description="Original Uranus Model File")
StringParameter	beamFile (description="Origin of Beam FWHM data")
DoubleParameter	pointingCorrApplied (description="Pointing correction applied to Uranus observation in arcsec")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	pointConv (description="Extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
<i>DoubleId</i>	pointConvError (description="Error of extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
<i>DoubleId</i>	beamDiam (description="Diameter of the beam", quantity="arcsec")
<i>table dataset</i>	(name="SLWD2", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
LongParameter	obsid (description="Uranus OBSID used")
StringParameter	instRsrFVersion (description="Instrument RSRF version")
StringParameter	teleRsrFVersion (description="Telescope RSRF version")
LongParameter	darkObsid (description="Dark sky OBSID used for subtraction")

StringParameter	uranusModelFile (description="Original Uranus Model File")
StringParameter	beamFile (description="Origin of Beam FWHM data")
DoubleParameter	pointingCorrApplied (description="Pointing correction applied to Uranus observation in arcsec")
QuantifiableParameter	waveunit (description="null")
Columns	
DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
DoubleId	pointConv (description="Extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
DoubleId	pointConvError (description="Error of extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
DoubleId	beamDiam (description="Diameter of the beam", quantity="arcsec")
table dataset	(name="SSWE2", description="null")
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
LongParameter	obsid (description="Uranus OBSID used")
StringParameter	instRsrFVersion (description="Instrument RSRF version")
StringParameter	teleRsrFVersion (description="Telescope RSRF version")
LongParameter	darkObsid (description="Dark sky OBSID used for subtraction")
StringParameter	uranusModelFile (description="Original Uranus Model File")
StringParameter	beamFile (description="Origin of Beam FWHM data")
DoubleParameter	pointingCorrApplied (description="Pointing correction applied to Uranus observation in arcsec")
QuantifiableParameter	waveunit (description="null")
Columns	
DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
DoubleId	pointConv (description="Extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")

<i>DoubleId</i>	pointConvError (description="Error of extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
<i>DoubleId</i>	beamDiam (description="Diameter of the beam", quantity="arcsec")
<i>table dataset</i>	(name="SLWC2", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
LongParameter	obsid (description="Uranus OBSID used")
StringParameter	instRsrFVersion (description="Instrument RSRF version")
StringParameter	teleRsrFVersion (description="Telescope RSRF version")
LongParameter	darkObsid (description="Dark sky OBSID used for subtraction")
StringParameter	uranusModelFile (description="Original Uranus Model File")
StringParameter	beamFile (description="Origin of Beam FWHM data")
DoubleParameter	pointingCorrApplied (description="Pointing correction applied to Uranus observation in arcsec")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	pointConv (description="Extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
<i>DoubleId</i>	pointConvError (description="Error of extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
<i>DoubleId</i>	beamDiam (description="Diameter of the beam", quantity="arcsec")
<i>table dataset</i>	(name="SSWF3", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")

LongParameter	obsid (description="Uranus OBSID used")
StringParameter	instRsrFVersion (description="Instrument RSRF version")
StringParameter	teleRsrFVersion (description="Telescope RSRF version")
LongParameter	darkObsid (description="Dark sky OBSID used for subtraction")
StringParameter	uranusModelFile (description="Original Uranus Model File")
StringParameter	beamFile (description="Origin of Beam FWHM data")
DoubleParameter	pointingCorrApplied (description="Pointing correction applied to Uranus observation in arcsec")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>Double1d</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>Double1d</i>	pointConv (description="Extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
<i>Double1d</i>	pointConvError (description="Error of extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
<i>Double1d</i>	beamDiam (description="Diameter of the beam", quantity="arcsec")
<i>table dataset</i>	(name="SLWB3", description="null")
<i>Metadata</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
LongParameter	obsid (description="Uranus OBSID used")
StringParameter	instRsrFVersion (description="Instrument RSRF version")
StringParameter	teleRsrFVersion (description="Telescope RSRF version")
LongParameter	darkObsid (description="Dark sky OBSID used for subtraction")
StringParameter	uranusModelFile (description="Original Uranus Model File")
StringParameter	beamFile (description="Origin of Beam FWHM data")
DoubleParameter	pointingCorrApplied (description="Pointing correction applied to Uranus observation in arcsec")

QuantifiableParameter	waveunit (description="null")
Columns	
DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
DoubleId	pointConv (description="Extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
DoubleId	pointConvError (description="Error of extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
DoubleId	beamDiam (description="Diameter of the beam", quantity="arcsec")
table dataset	(name="SSWC5", description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
LongParameter	obsid (description="Uranus OBSID used")
StringParameter	instRsrFVersion (description="Instrument RSRF version")
StringParameter	teleRsrFVersion (description="Telescope RSRF version")
LongParameter	darkObsid (description="Dark sky OBSID used for subtraction")
StringParameter	uranusModelFile (description="Original Uranus Model File")
StringParameter	beamFile (description="Origin of Beam FWHM data")
DoubleParameter	pointingCorrApplied (description="Pointing correction applied to Uranus observation in arcsec")
QuantifiableParameter	waveunit (description="null")
Columns	
DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
DoubleId	pointConv (description="Extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
DoubleId	pointConvError (description="Error of extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
DoubleId	beamDiam (description="Diameter of the beam", quantity="arcsec")
table dataset	(name="SLWD3", description="null")
Meta-data	

DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
LongParameter	obsid (description="Uranus OBSID used")
StringParameter	instRsrFVersion (description="Instrument RSRF version")
StringParameter	teleRsrFVersion (description="Telescope RSRF version")
LongParameter	darkObsid (description="Dark sky OBSID used for subtraction")
StringParameter	uranusModelFile (description="Original Uranus Model File")
StringParameter	beamFile (description="Origin of Beam FWHM data")
DoubleParameter	pointingCorrApplied (description="Pointing correction applied to Uranus observation in arcsec")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	pointConv (description="Extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
<i>DoubleId</i>	pointConvError (description="Error of extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
<i>DoubleId</i>	beamDiam (description="Diameter of the beam", quantity="arcsec")
<i>table dataset</i>	(name="SSWC2", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
LongParameter	obsid (description="Uranus OBSID used")
StringParameter	instRsrFVersion (description="Instrument RSRF version")
StringParameter	teleRsrFVersion (description="Telescope RSRF version")
LongParameter	darkObsid (description="Dark sky OBSID used for subtraction")

StringParameter	uranusModelFile (description="Original Uranus Model File")
StringParameter	beamFile (description="Origin of Beam FWHM data")
DoubleParameter	pointingCorrApplied (description="Pointing correction applied to Uranus observation in arcsec")
QuantifiableParameter	waveunit (description="null")
Columns	
DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
DoubleId	pointConv (description="Extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
DoubleId	pointConvError (description="Error of extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
DoubleId	beamDiam (description="Diameter of the beam", quantity="arcsec")
table dataset	(name="SLWC4", description="null")
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
LongParameter	obsid (description="Uranus OBSID used")
StringParameter	instRsrFVersion (description="Instrument RSRF version")
StringParameter	teleRsrFVersion (description="Telescope RSRF version")
LongParameter	darkObsid (description="Dark sky OBSID used for subtraction")
StringParameter	uranusModelFile (description="Original Uranus Model File")
StringParameter	beamFile (description="Origin of Beam FWHM data")
DoubleParameter	pointingCorrApplied (description="Pointing correction applied to Uranus observation in arcsec")
QuantifiableParameter	waveunit (description="null")
Columns	
DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
DoubleId	pointConv (description="Extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")

<i>DoubleId</i>	pointConvError (description="Error of extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
<i>DoubleId</i>	beamDiam (description="Diameter of the beam", quantity="arcsec")
<i>table dataset</i>	(name="SSWB3", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
LongParameter	obsid (description="Uranus OBSID used")
StringParameter	instRsrFVersion (description="Instrument RSRF version")
StringParameter	teleRsrFVersion (description="Telescope RSRF version")
LongParameter	darkObsid (description="Dark sky OBSID used for subtraction")
StringParameter	uranusModelFile (description="Original Uranus Model File")
StringParameter	beamFile (description="Origin of Beam FWHM data")
DoubleParameter	pointingCorrApplied (description="Pointing correction applied to Uranus observation in arcsec")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	pointConv (description="Extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
<i>DoubleId</i>	pointConvError (description="Error of extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
<i>DoubleId</i>	beamDiam (description="Diameter of the beam", quantity="arcsec")
<i>table dataset</i>	(name="SSWE4", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")

LongParameter	obsid (description="Uranus OBSID used")
StringParameter	instRsrFVersion (description="Instrument RSRF version")
StringParameter	teleRsrFVersion (description="Telescope RSRF version")
LongParameter	darkObsid (description="Dark sky OBSID used for subtraction")
StringParameter	uranusModelFile (description="Original Uranus Model File")
StringParameter	beamFile (description="Origin of Beam FWHM data")
DoubleParameter	pointingCorrApplied (description="Pointing correction applied to Uranus observation in arcsec")
QuantifiableParameter	waveunit (description="null")
Columns	
Double1d	wave (description="Unspecified wave-like data", quantity="GHz")
Double1d	pointConv (description="Extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
Double1d	pointConvError (description="Error of extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
Double1d	beamDiam (description="Diameter of the beam", quantity="arcsec")
table dataset	(name="SSWE3", description="null")
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
LongParameter	obsid (description="Uranus OBSID used")
StringParameter	instRsrFVersion (description="Instrument RSRF version")
StringParameter	teleRsrFVersion (description="Telescope RSRF version")
LongParameter	darkObsid (description="Dark sky OBSID used for subtraction")
StringParameter	uranusModelFile (description="Original Uranus Model File")
StringParameter	beamFile (description="Origin of Beam FWHM data")
DoubleParameter	pointingCorrApplied (description="Pointing correction applied to Uranus observation in arcsec")

QuantifiableParameter	waveunit (description="null")
Columns	
DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
DoubleId	pointConv (description="Extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
DoubleId	pointConvError (description="Error of extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
DoubleId	beamDiam (description="Diameter of the beam", quantity="arcsec")
table dataset	(name="SSWD3", description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
LongParameter	obsid (description="Uranus OBSID used")
StringParameter	instRsrFVersion (description="Instrument RSRF version")
StringParameter	teleRsrFVersion (description="Telescope RSRF version")
LongParameter	darkObsid (description="Dark sky OBSID used for subtraction")
StringParameter	uranusModelFile (description="Original Uranus Model File")
StringParameter	beamFile (description="Origin of Beam FWHM data")
DoubleParameter	pointingCorrApplied (description="Pointing correction applied to Uranus observation in arcsec")
QuantifiableParameter	waveunit (description="null")
Columns	
DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
DoubleId	pointConv (description="Extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
DoubleId	pointConvError (description="Error of extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
DoubleId	beamDiam (description="Diameter of the beam", quantity="arcsec")
table dataset	(name="SSWC3", description="null")
Meta-data	

DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
LongParameter	obsid (description="Uranus OBSID used")
StringParameter	instRsrFVersion (description="Instrument RSRF version")
StringParameter	teleRsrFVersion (description="Telescope RSRF version")
LongParameter	darkObsid (description="Dark sky OBSID used for subtraction")
StringParameter	uranusModelFile (description="Original Uranus Model File")
StringParameter	beamFile (description="Origin of Beam FWHM data")
DoubleParameter	pointingCorrApplied (description="Pointing correction applied to Uranus observation in arcsec")
QuantifiableParameter	waveunit (description="null")
Columns	
DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
DoubleId	pointConv (description="Extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
DoubleId	pointConvError (description="Error of extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
DoubleId	beamDiam (description="Diameter of the beam", quantity="arcsec")
table dataset	(name="SSWC4", description="null")
Meta- data	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
LongParameter	obsid (description="Uranus OBSID used")
StringParameter	instRsrFVersion (description="Instrument RSRF version")
StringParameter	teleRsrFVersion (description="Telescope RSRF version")
LongParameter	darkObsid (description="Dark sky OBSID used for subtraction")

StringParameter	uranusModelFile (description="Original Uranus Model File")
StringParameter	beamFile (description="Origin of Beam FWHM data")
DoubleParameter	pointingCorrApplied (description="Pointing correction applied to Uranus observation in arcsec")
QuantifiableParameter	waveunit (description="null")
Columns	
DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
DoubleId	pointConv (description="Extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
DoubleId	pointConvError (description="Error of extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
DoubleId	beamDiam (description="Diameter of the beam", quantity="arcsec")
table dataset	(name="SSWB2", description="null")
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
LongParameter	obsid (description="Uranus OBSID used")
StringParameter	instRsrFVersion (description="Instrument RSRF version")
StringParameter	teleRsrFVersion (description="Telescope RSRF version")
LongParameter	darkObsid (description="Dark sky OBSID used for subtraction")
StringParameter	uranusModelFile (description="Original Uranus Model File")
StringParameter	beamFile (description="Origin of Beam FWHM data")
DoubleParameter	pointingCorrApplied (description="Pointing correction applied to Uranus observation in arcsec")
QuantifiableParameter	waveunit (description="null")
Columns	
DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
DoubleId	pointConv (description="Extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")

<i>DoubleId</i>	pointConvError (description="Error of extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
<i>DoubleId</i>	beamDiam (description="Diameter of the beam", quantity="arcsec")
<i>table dataset</i>	(name="SSWB4", description="null")
<i>Metada- ta</i>	
DoublePa- rameter	dec (description="Dec pointing for this channel")
DoublePa- rameter	ra (description="Ra pointing for this channel")
StringPa- rameter	channelName (description="Channel name")
LongPa- rameter	obsid (description="Uranus OBSID used")
StringPa- rameter	instRsrFVersion (description="Instrument RSRF version")
StringPa- rameter	teleRsrFVersion (description="Telescope RSRF version")
LongPa- rameter	darkObsid (description="Dark sky OBSID used for subtraction")
StringPa- rameter	uranusModelFile (description="Original Uranus Model File")
StringPa- rameter	beamFile (description="Origin of Beam FWHM data")
DoublePa- rameter	pointingCorrApplied (description="Pointing correction applied to Uranus observation in arcsec")
Quantifi- ableParam- eter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	pointConv (description="Extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
<i>DoubleId</i>	pointConvError (description="Error of extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
<i>DoubleId</i>	beamDiam (description="Diameter of the beam", quantity="arcsec")
<i>table dataset</i>	(name="SSWD2", description="null")
<i>Metada- ta</i>	
DoublePa- rameter	dec (description="Dec pointing for this channel")
DoublePa- rameter	ra (description="Ra pointing for this channel")
StringPa- rameter	channelName (description="Channel name")

LongParameter	obsid (description="Uranus OBSID used")
StringParameter	instRsrFVersion (description="Instrument RSRF version")
StringParameter	teleRsrFVersion (description="Telescope RSRF version")
LongParameter	darkObsid (description="Dark sky OBSID used for subtraction")
StringParameter	uranusModelFile (description="Original Uranus Model File")
StringParameter	beamFile (description="Origin of Beam FWHM data")
DoubleParameter	pointingCorrApplied (description="Pointing correction applied to Uranus observation in arcsec")
QuantifiableParameter	waveunit (description="null")
Columns	
Double1d	wave (description="Unspecified wave-like data", quantity="GHz")
Double1d	pointConv (description="Extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
Double1d	pointConvError (description="Error of extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
Double1d	beamDiam (description="Diameter of the beam", quantity="arcsec")
table dataset	(name="SSWD6", description="null")
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
LongParameter	obsid (description="Uranus OBSID used")
StringParameter	instRsrFVersion (description="Instrument RSRF version")
StringParameter	teleRsrFVersion (description="Telescope RSRF version")
LongParameter	darkObsid (description="Dark sky OBSID used for subtraction")
StringParameter	uranusModelFile (description="Original Uranus Model File")
StringParameter	beamFile (description="Origin of Beam FWHM data")
DoubleParameter	pointingCorrApplied (description="Pointing correction applied to Uranus observation in arcsec")

QuantifiableParameter	waveunit (description="null")
Columns	
DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
DoubleId	pointConv (description="Extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
DoubleId	pointConvError (description="Error of extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
DoubleId	beamDiam (description="Diameter of the beam", quantity="arcsec")
table dataset	(name="SSWF2", description="null")
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
LongParameter	obsid (description="Uranus OBSID used")
StringParameter	instRsrFVersion (description="Instrument RSRF version")
StringParameter	teleRsrFVersion (description="Telescope RSRF version")
LongParameter	darkObsid (description="Dark sky OBSID used for subtraction")
StringParameter	uranusModelFile (description="Original Uranus Model File")
StringParameter	beamFile (description="Origin of Beam FWHM data")
DoubleParameter	pointingCorrApplied (description="Pointing correction applied to Uranus observation in arcsec")
QuantifiableParameter	waveunit (description="null")
Columns	
DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
DoubleId	pointConv (description="Extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
DoubleId	pointConvError (description="Error of extended to point conversion factor", quantity="Jy W-1 m2 Hz sr")
DoubleId	beamDiam (description="Diameter of the beam", quantity="arcsec")

6.3.3. SPIRECAL Product - Spectral Beam Profile Calibration Product

<i>product</i> (type="SCalSpecBeamProf", description="Spectral Beam Profile Calibration Product")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	dependency (description="Keywords on which product depends")
StringParameter	version (description="null")
StringParameter	dataOrigin (description="Origin of the data")
StringParameter	arrayName (description="null")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="null")
<i>Columns</i>	
<i>array dataset</i>	(description="Normalised Beam Profile")
<i>Metadata</i>	
LongParameter	naxis (description="WCS: Number of Axes")
LongParameter	naxis3 (description="The number of layers")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
DoubleParameter	cdelt3 (description="WCS: Scale in 3rd dimension, unit=Length, Duration, ...")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crpix3 (description="WCS: Reference layer index, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	crval3 (description="WCS: Wavelength, time, ... of reference layer; unit=length,time,...")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represent")
DoubleParameter	equinox (description="WCS: Equinox, unit=Duration")
DoubleParameter	crota2 (description="The Rotation angle")
StringParameter	cunit3 (description="WCS: Unit axis 3")

LongParameter	naxis1 (description="The number of columns")
LongParameter	naxis2 (description="The number of rows")
Columns	
Float3d	(description="Normalised Beam Profile", quantity="1")

6.3.4. SPIRECAL Product - Spectrometer Bolometer Parameter Table

<i>product</i> (type="SCalSpecBolPar", description="Spectrometer Bolometer Parameter Table")	
Metadata	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
StringParameter	fileName (description="null")
StringParameter	version (description="null")
Columns	
table dataset	(name="SSW", description="Table for SSW array")
Metadata	
DoubleParameter	tempT0 (description="Reference Temperature for Bolometer Thermal Conductivity T0", quantity="K")
Columns	
StringId	names (description="Channel names", quantity="1")
DoubleId	loadResPos (description="Load resistance positive bias resistor", quantity="Ohm")
DoubleId	loadResNeg (description="Load resistance negative bias resistor", quantity="Ohm")
DoubleId	resR0 (description="Bolometer Electric Resistance at Temperature de", quantity="Ohm")
DoubleId	delta (description="Reference Temperature for Bolometer Resistance", quantity="K")
DoubleId	capac (description="Electrical Capacitance of Cable", quantity="F")
DoubleId	condG0 (description="Bolometer Thermal Conductivity at Temperature T", quantity="W K-1")
DoubleId	beta (description="Exponent for Temperature evolution of Bolometer Thermal Conductivity", quantity="1")
	()

<i>table dataset</i>	Dataset similar to the one above with (name="SLW", description="Table for SLW array")

6.3.5. SPIRECAL Product - Spectrometer Bolometer Phase Table

<i>product (type="SCalSpecBolPhase", description="Spectrometer Bolometer Phase Table")</i>	
<i>Metadata</i>	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
StringParameter	fileName (description="null")
StringParameter	dependency (description="Keywords on which product depends")
StringParameter	version (description="null")
<i>Columns</i>	
<i>table dataset</i>	(name="SSW", description="Table for SSW array")
<i>Metadata</i>	
DoubleParameter	offPhase (description="Phase offset", quantity="deg")
<i>Columns</i>	
<i>StringId</i>	names (description="Channel names", quantity="1")
<i>DoubleId</i>	nominalPhase (description="Peak phase for nominal mode", quantity="deg")
<i>DoubleId</i>	nominalPhaseError (description="Error on peak phase for nominal mode", quantity="deg")
<i>DoubleId</i>	brightPhase (description="Peak phase for bright mode", quantity="deg")
<i>DoubleId</i>	brightPhaseError (description="Error on peak phase for bright mode", quantity="deg")

6.3.6. SPIRECAL Product - Spectrometer Bright Mode Gain Table

<i>product (type="SCalSpecBrightGain", description="Spectrometer Bright Mode Gain Table")</i>	
<i>Metadata</i>	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")

DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	author (description="Author of the data")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
StringParameter	fileName (description="null")
StringParameter	dependency (description="Keywords on which product depends")
StringParameter	version (description="null")
StringParameter	fileOrigin (description="Origin of the data")
<i>Columns</i>	
<i>table dataset</i>	(name="SSW", description="Table for SSW array")
<i>Metadata</i>	
<i>Columns</i>	
<i>StringId</i>	names (description="Channel names", quantity="1")
<i>DoubleId</i>	intercept (description="Intercept for frequency dep. gain", quantity="1")
<i>DoubleId</i>	interceptError (description="Error on intercept for frequency dep. gain", quantity="1")
<i>DoubleId</i>	gradient (description="Gradient for frequency dep. gain", quantity="GHz-1")
<i>DoubleId</i>	gradientError (description="Error on gradient for frequency dep. gain", quantity="GHz-1")
<i>DoubleId</i>	pcalGain (description="Bright mode gain factor", quantity="1")
<i>DoubleId</i>	pcalGainError (description="Error on bright mode gain factor", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="SLW", description="Table for SLW array")

6.3.7. SPIRECAL Product - Spectrometer BSM Operations Table

<i>product (type="SCalSpecBsmOps", description="Spectrometer BSM Operations Table")</i>	
<i>Metadata</i>	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	modelName (description="Model name attached to this product")

StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
StringParameter	fileName (description="null")
StringParameter	dependency (description="Keywords on which product depends")
StringParameter	version (description="null")
DoubleParameter	chopMaxSpeed (description="Speed limit for stabilisation in chop")
DoubleParameter	jiggMaxSpeed (description="Speed limit for stabilisation in jigg")
<i>Columns</i>	
<i>table dataset</i>	(name="SOF2int", description="4 Point Jiggle Map")
<i>Metadata</i>	
StringParameter	instMode (description="null")
<i>Columns</i>	
<i>StringId</i>	chopBeamId (description="Chopper Beam Identifier", quantity="1")
<i>IntId</i>	chopSens (description="Target sensor signal in chop direction", quantity="1")
<i>IntId</i>	chopHiTol (description="Positive tolerance in chop sensor signal", quantity="1")
<i>IntId</i>	chopLoTol (description="Negative tolerance in chop sensor signal", quantity="1")
<i>IntId</i>	jiggId (description="Jiggle Position Identifier", quantity="1")
<i>IntId</i>	jiggSens (description="Target sensor signal in jiggle direction", quantity="1")
<i>IntId</i>	jiggHiTol (description="Positive tolerance in jiggle sensor signal", quantity="1")
<i>IntId</i>	jiggLoTol (description="Negative tolerance in jiggle sensor signal", quantity="1")

6.3.8. SPIRECAL Product - Spectrometer BSM Position Table

<i>product (type="SCalSpecBsmPos", description="Spectrometer BSM Position Table")</i>	
<i>Metadata</i>	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
StringParameter	fileName (description="null")

StringParameter	version (description="null")
LongParameter	chopRestPos (description="BSM rest position in chop direction (Y-axis)")
LongParameter	chopSoftLimit1 (description="BSM soft lower limit in chop direction")
LongParameter	chopSoftLimit2 (description="BSM soft upper limit in chop direction")
LongParameter	chopHardLimit1 (description="BSM hard lower limit in chop direction")
LongParameter	chopHardLimit2 (description="BSM hard upper limit in chop direction")
LongParameter	jiggRestPos (description="BSM rest position in jiggle direction (Z-axis)")
LongParameter	jiggSoftLimit1 (description="BSM soft lower limit in jiggle direction")
LongParameter	jiggSoftLimit2 (description="BSM soft upper limit in jiggle direction")
LongParameter	jiggHardLimit1 (description="BSM hard lower limit in jiggle direction")
LongParameter	jiggHardLimit2 (description="BSM hard upper limit in jiggle direction")
Columns	
table dataset	(name="table", description="BSM angle versus chop and jiggle sensor value")
Metadata	
Columns	
DoubleId	yangle (description="Angle in spacecraft Y-direction", quantity="arcsec")
DoubleId	yangleError (description="Error in Y-angl", quantity="arcsec")
DoubleId	zangle (description="Angle in spacecraft Z-direction", quantity="arcsec")
DoubleId	zangleError (description="Error in Z-angle", quantity="arcsec")
IntId	chopSensor (description="Sensor signal in chop direction (Y-axis)", quantity="1")
IntId	jiggSensor (description="Sensor signal in jiggle direction (Z-axis)", quantity="1")

6.3.9. SPIRECAL Product - Spectrometer Channel Gain Table

<i>product (type="SCalSpecChanGain", description="Spectrometer Channel Gain Table")</i>	
Metadata	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
StringParameter	fileName (description="null")
StringParameter	version (description="null")

DoubleParameter	refBiasFreq (description="Reference bias frequency", quantity="Hz")
DoubleParameter	freqDepSpec (description="Frequency dependency parameter", quantity="s2")
Columns	
table dataset	(name="SSW", description="Table for SSW array")
Metadata	
Columns	
StringId	names (description="Channel names", quantity="1")
DoubleId	totGain (description="LIA plus amplifier gain", quantity="1")
DoubleId	jfetGain (description="JFET Gain", quantity="1")
	()
table dataset	Dataset similar to the one above with (name="SLW", description="Table for SLW array")

6.3.10. SPIRECAL Product - Spectrometer Channel Mask Table

<i>product (type="SCalSpecChanMask", description="Spectrometer Channel Mask Table")</i>	
Metadata	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
StringParameter	fileName (description="null")
StringParameter	dependency (description="Keywords on which product depends")
StringParameter	version (description="null")
Columns	
table dataset	(name="SSW", description="Table for SSW array")
Metadata	
Columns	
StringId	names (description="Channel names", quantity="1")
BoolId	isDead (description="Dead Channels", quantity="1")
BoolId	isNoisy (description="Noisy Channels", quantity="1")
BoolId	isSlow (description="Slow Channels", quantity="1")
	()

<i>table dataset</i>	Dataset similar to the one above with (name="SLW", description="Table for SLW array")

6.3.11. SPIRECAL Product - Photometer Channel Number Mapping Table

<i>product (type="SCalPhotChanNum", description="Photometer Channel Number Mapping Table")</i>	
<i>Metadata</i>	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
StringParameter	fileName (description="null")
StringParameter	version (description="null")
<i>Columns</i>	
<i>table dataset</i>	(name="SSW", description="Table for SSW array")
<i>Metadata</i>	
<i>Columns</i>	
<i>StringId</i>	names (description="Channel names", quantity="1")
<i>IntId</i>	fullChannel (description="Full Channel Number", quantity="1")
<i>IntId</i>	indivChannel (description="Individual Channel Number", quantity="1")
<i>BoolId</i>	isAligned (description="Aligned Channels", quantity="1")
<i>IntId</i>	jfetGroup (description="JFET group", quantity="1")
<i>StringId</i>	jfetMembrane (description="JFET membrane", quantity="1")
<i>IntId</i>	liaBoard (description="LIA board", quantity="1")
<i>IntId</i>	adcChannel (description="ADC channel", quantity="1")
<i>BoolId</i>	isConnected (description="Connected Channels", quantity="1")
<i>BoolId</i>	isBolometer (description="Bolometer Channels", quantity="1")
<i>BoolId</i>	isThermistor (description="Thermistor Channels", quantity="1")
<i>BoolId</i>	isResistor (description="Resistor Channels", quantity="1")
<i>BoolId</i>	isDark (description="Dark Channels", quantity="1")
<i>BoolId</i>	isPtc (description="PTC Channels", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="SLW", description="Table for SLW array")

6.3.12. SPIRECAL Product - Spectrometer Channel Time Constant Table

<i>product</i> (type="SCalSpecChanTimeConst", description="Spectrometer Channel Time Constant Table")	
<i>Metadata</i>	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	biasMode (description="Nominal/bright source mode")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
StringParameter	fileName (description="null")
StringParameter	dependency (description="Keywords on which product depends")
StringParameter	version (description="null")
<i>Columns</i>	
<i>table dataset</i>	(name="SSW", description="Table for SSW array")
<i>Metadata</i>	
<i>Columns</i>	
<i>StringId</i>	names (description="Channel names", quantity="1")
<i>DoubleId</i>	timeConst (description="Detector time constant", quantity="s")
<i>DoubleId</i>	error (description="Error on time constant", quantity="s")
<i>DoubleId</i>	slowTimeConst (description="the slow detector time constant", quantity="s")
<i>DoubleId</i>	slowTimeConstError (description="Error in the slow detector time constant", quantity="s")
<i>DoubleId</i>	amplitude (description="time constant amplitude factor", quantity="none")
<i>DoubleId</i>	amplitudeError (description="Error in time constant amplitude factor", quantity="none")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="SLW", description="Table for SLW array")

6.3.13. SPIRECAL Product - Spectrometer Channel Time Offset Table

product (type="SCalSpecChanTimeOff", description="Spectrometer Channel Time Offset Table")

<i>Metadata</i>	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
StringParameter	fileName (description="null")
StringParameter	version (description="null")
<i>Columns</i>	
<i>table dataset</i>	(name="SSW", description="Table for SSW array")
<i>Metadata</i>	
<i>Columns</i>	
<i>StringId</i>	names (description="Channel names", quantity="1")
<i>DoubleId</i>	offsetSingle (description="Time offset relative to single array readout", quantity="s")
<i>DoubleId</i>	offsetFull (description="Time offset relative to full array readout", quantity="s")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="SLW", description="Table for SLW array")

6.3.14. SPIRECAL Product - Spectrometer Detector Angular Offset Table

<i>product (type="SCalSpecDetAngOff", description="Spectrometer Detector Angular Offset Table")</i>	
<i>Metadata</i>	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
StringParameter	fileName (description="null")
StringParameter	aperture (description="null")

StringParameter	dependency (description="Keywords on which product depends")
StringParameter	version (description="null")
Columns	
table dataset	(name="SSW", description="Table for SSW array")
Metadata	
Columns	
StringId	names (description="Channel names", quantity="1")
DoubleId	yangle (description="Angular offset in Y-direction", quantity="arcsec")
DoubleId	yangleError (description="Error on angular offset in Y-direction", quantity="arcsec")
DoubleId	zangle (description="Angular offset in Z-direction", quantity="arcsec")
DoubleId	zangleError (description="Error on angular offset in Z-direction", quantity="arcsec")
StringId	aperture (description="Detector aperture", quantity="none")
	()
table dataset	Dataset similar to the one above with (name="SLW", description="Table for SLW array")

6.3.15. SPIRECAL Product - Spectrometer Electrical Crosstalk Table

<i>product (type="SCalSpecElecCross", description="Spectrometer Electrical Crosstalk Table")</i>	
Metadata	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
StringParameter	fileName (description="null")
StringParameter	version (description="null")
Columns	
table dataset	(name="SSW", description="Table for SSW array")
Metadata	
Columns	
StringId	names (description="Channel names", quantity="1")
DoubleId	SSWA1 (description="Crosstalk values", quantity="1")
DoubleId	SSWA2 (description="Crosstalk values", quantity="1")

<i>Double1d</i>	SSWA3 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWA4 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWB1 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWB2 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWB3 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWB4 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWB5 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWC1 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWC2 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWC3 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWC4 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWC5 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWC6 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWD1 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWD2 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWD3 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWD4 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWD5 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWD6 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWD7 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWE1 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWE2 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWE3 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWE4 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWE5 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWE6 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWF1 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWF2 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWF3 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWF4 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWF5 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWG1 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWG2 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWG3 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWG4 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWDP1 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWDP2 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWR1 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWT1 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWT2 (description="Crosstalk values", quantity="1")
	()

	<i>table dataset</i>	Dataset similar to the one above with (name="SLW", description="Table for SLW array")

6.3.16. SPIRECAL Product - Spectrometer extended calibration polynomial correction coefficients

<i>product (type="SCalSpecExtCorr", description="Spectrometer extended calibration polynomial correction coefficients")</i>	
<i>Metadata</i>	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	author (description="Author of the data")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
StringParameter	fileName (description="Name of file on output")
StringParameter	version (description="null")
StringParameter	fileOrigin (description="Origin of the data")
<i>Columns</i>	
<i>table dataset</i>	(name="SLW", description="Correction Curve Coefficients Table for SLW")
<i>Metadata</i>	
<i>Columns</i>	
<i>DoubleId</i>	Coefficients (description="Polynomial Coefficients", quantity="none")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="SSW", description="Correction Curve Coefficients Table for SSW")

6.3.17. SPIRECAL Product - Spectrometer Instrument RSRF

<i>product (type="SCalSpecInstRsrF", description="Spectrometer Instrument RSRF")</i>	
<i>Meta-da-ta</i>	
String-Parameter	telescope (description="Name of telescope")

String- Pa- ram- e- ter	instrument (description="Instrument attached to this product")
String- Pa- ram- e- ter	subsystem (description="Instrument Subsystem")
String- Pa- ram- e- ter	creator (description="Generator of this product")
Long- Pa- ram- e- ter	obsid (description="Observation identifier")
DatePa- ram- e- ter	creationDate (description="Creation date of this product")
DatePa- ram- e- ter	startDate (description="Start date of this product")
DatePa- ram- e- ter	endDate (description="End date of this product")
String- Pa- ram- e- ter	commandedResolution (description="Commanded Spectral Resolution")
String- Pa- ram- e- ter	author (description="Author of the data")
String- Pa- ram- e- ter	modelName (description="Model name attached to this product")
String- Pa- ram- e- ter	formatVersion (description="Version of product format")

DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	type (description="Product Type Identification", quantity="deg")
StringParameter	description (description="Name of this product", quantity="deg")
StringParameter	processResolution (description="The resolution that is to be used or was used to process the data", quantity="deg")
LongParameter	numScans (description="Number of scans", quantity="deg")

e-ter	
String-Parameter	apodName (description="Apodization function applied", quantity="deg")
String-Parameter	fileName (description="null", quantity="deg")
String-Parameter	dependency (description="Keywords on which product depends", quantity="deg")
String-Parameter	version (description="null", quantity="deg")
String-Parameter	fileOrigin (description="Origin of the data", quantity="deg")
<i>Columns</i>	
<i>composite</i>	(description="null")
<i>Meta-data</i>	
Long-Parameter	count (description="Set number")
Long-Parameter	scanNumber (description="Scan number")
String-Parameter	scanDir (description="Scan direction")
DateParameter	scanStartDate (description="Start date of the FTS scan")
DateParameter	scanEndDate (description="End date of the FTS scan")

<i>Columns</i>	
<i>table</i>	(name="SLWA1", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")
<i>StringParameter</i>	channelName (description="Channel name")
<i>QuantifiableParameter</i>	waveunit (description="null")
<i>Columns</i>	
<i>Double1d</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>Double1d</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>Int1d</i>	numScans (description="Number Of Scans", quantity="1")
<i>Double1d</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table</i>	(name="SLWA2", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")
<i>StringParameter</i>	channelName (description="Channel name")
<i>QuantifiablePa-</i>	waveunit (description="null")

	parameter	
<i>Columns</i>		
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")	
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")	
<i>DoubleId</i>	error (description="Error on the relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>table</i>	(name="SLWA3", description="null")	
<i>dataset</i>		
<i>Meta-data</i>		
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")	
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")	
<i>StringParameter</i>	channelName (description="Channel name")	
<i>QuantifiableParameter</i>	waveunit (description="null")	
<i>Columns</i>		
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")	
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")	
<i>DoubleId</i>	error (description="Error on the relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>table</i>	(name="SLWB1", description="null")	
<i>dataset</i>		
<i>Meta-data</i>		
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")	

	DoubleParameter	ra (description="Ra pointing for this channel")
	StringParameter	channelName (description="Channel name")
	QuantifiableParameter	waveunit (description="null")
<i>Columns</i>		
	DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
	DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	IntId	numScans (description="Number Of Scans", quantity="1")
	DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>dataset</i>	table	(name="SLWB2", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel")
	DoubleParameter	ra (description="Ra pointing for this channel")
	StringParameter	channelName (description="Channel name")
	QuantifiableParameter	waveunit (description="null")
<i>Columns</i>		
	DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
	DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	IntId	numScans (description="Number Of Scans", quantity="1")
	DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")

<i>table</i>	(name="SLWB3", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table</i>	(name="SLWB4", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")

parameter	
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table</i>	(name="SLWC1", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")
<i>StringParameter</i>	channelName (description="Channel name")
<i>QuantifiableParameter</i>	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table</i>	(name="SLWC2", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")

	DoubleParameter	ra (description="Ra pointing for this channel")
	StringParameter	channelName (description="Channel name")
	QuantifiableParameter	waveunit (description="null")
<i>Columns</i>		
	DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
	DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	IntId	numScans (description="Number Of Scans", quantity="1")
	DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>dataset</i>	table	(name="SLWC3", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel")
	DoubleParameter	ra (description="Ra pointing for this channel")
	StringParameter	channelName (description="Channel name")
	QuantifiableParameter	waveunit (description="null")
<i>Columns</i>		
	DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
	DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	IntId	numScans (description="Number Of Scans", quantity="1")
	DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")

<i>table</i>	(name="SLWC4", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table</i>	(name="SLWC5", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")

	parameter	
<i>Columns</i>		
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")	
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")	
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>table</i>	(name="SLWD1", description="null")	
<i>dataset</i>		
<i>Meta-data</i>		
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")	
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")	
<i>StringParameter</i>	channelName (description="Channel name")	
<i>QuantifiableParameter</i>	waveunit (description="null")	
<i>Columns</i>		
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")	
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")	
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>table</i>	(name="SLWD2", description="null")	
<i>dataset</i>		
<i>Meta-data</i>		
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")	

	DoubleParameter	ra (description="Ra pointing for this channel")
	StringParameter	channelName (description="Channel name")
	QuantifiableParameter	waveunit (description="null")
<i>Columns</i>		
	DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
	DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	IntId	numScans (description="Number Of Scans", quantity="1")
	DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>dataset</i>	<i>table</i>	(name="SLWD3", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel")
	DoubleParameter	ra (description="Ra pointing for this channel")
	StringParameter	channelName (description="Channel name")
	QuantifiableParameter	waveunit (description="null")
<i>Columns</i>		
	DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
	DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	IntId	numScans (description="Number Of Scans", quantity="1")
	DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")

<i>table</i>	(name="SLWD4", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
IntId	numScans (description="Number Of Scans", quantity="1")
DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table</i>	(name="SLWE1", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")

	parameter	
<i>Columns</i>		
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")	
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")	
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>table</i>	(name="SLWE2", description="null")	
<i>dataset</i>		
<i>Meta-data</i>		
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")	
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")	
<i>StringParameter</i>	channelName (description="Channel name")	
<i>QuantifiableParameter</i>	waveunit (description="null")	
<i>Columns</i>		
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")	
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")	
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>table</i>	(name="SLWE3", description="null")	
<i>dataset</i>		
<i>Meta-data</i>		
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")	

	DoubleParameter	ra (description="Ra pointing for this channel")
	StringParameter	channelName (description="Channel name")
	QuantifiableParameter	waveunit (description="null")
<i>Columns</i>		
	DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
	DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	IntId	numScans (description="Number Of Scans", quantity="1")
	DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>dataset</i>	table	(name="SSWA1", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel")
	DoubleParameter	ra (description="Ra pointing for this channel")
	StringParameter	channelName (description="Channel name")
	QuantifiableParameter	waveunit (description="null")
<i>Columns</i>		
	DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
	DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	IntId	numScans (description="Number Of Scans", quantity="1")
	DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")

<i>table</i>	(name="SSWA2", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
IntId	numScans (description="Number Of Scans", quantity="1")
DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table</i>	(name="SSWA3", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")

	parameter	
<i>Columns</i>		
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")	
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")	
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>table</i>	(name="SSWA4", description="null")	
<i>dataset</i>		
<i>Meta-data</i>		
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")	
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")	
<i>StringParameter</i>	channelName (description="Channel name")	
<i>QuantifiableParameter</i>	waveunit (description="null")	
<i>Columns</i>		
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")	
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")	
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>table</i>	(name="SSWBI", description="null")	
<i>dataset</i>		
<i>Meta-data</i>		
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")	

	DoubleParameter	ra (description="Ra pointing for this channel")
	StringParameter	channelName (description="Channel name")
	QuantifiableParameter	waveunit (description="null")
<i>Columns</i>		
	DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
	DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	IntId	numScans (description="Number Of Scans", quantity="1")
	DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>dataset</i>	<i>table</i>	(name="SSWB2", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel")
	DoubleParameter	ra (description="Ra pointing for this channel")
	StringParameter	channelName (description="Channel name")
	QuantifiableParameter	waveunit (description="null")
<i>Columns</i>		
	DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
	DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	IntId	numScans (description="Number Of Scans", quantity="1")
	DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")

<i>table</i>	(name="SSWB3", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
IntId	numScans (description="Number Of Scans", quantity="1")
DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table</i>	(name="SSWB4", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")

	parameter	
<i>Columns</i>		
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")	
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")	
<i>DoubleId</i>	error (description="Error on the relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>table</i>	(name="SSWB5", description="null")	
<i>dataset</i>		
<i>Meta-data</i>		
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")	
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")	
<i>StringParameter</i>	channelName (description="Channel name")	
<i>QuantifiableParameter</i>	waveunit (description="null")	
<i>Columns</i>		
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")	
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")	
<i>DoubleId</i>	error (description="Error on the relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>table</i>	(name="SSWC1", description="null")	
<i>dataset</i>		
<i>Meta-data</i>		
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")	

	DoubleParameter	ra (description="Ra pointing for this channel")
	StringParameter	channelName (description="Channel name")
	QuantifiableParameter	waveunit (description="null")
<i>Columns</i>		
	DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
	DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	IntId	numScans (description="Number Of Scans", quantity="1")
	DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>dataset</i>	table	(name="SSWC2", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel")
	DoubleParameter	ra (description="Ra pointing for this channel")
	StringParameter	channelName (description="Channel name")
	QuantifiableParameter	waveunit (description="null")
<i>Columns</i>		
	DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
	DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	IntId	numScans (description="Number Of Scans", quantity="1")
	DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")

<i>table</i>	(name="SSWC3", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table</i>	(name="SSWC4", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")

parameter	
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table</i>	(name="SSWC5", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")
<i>StringParameter</i>	channelName (description="Channel name")
<i>QuantifiableParameter</i>	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table</i>	(name="SSWC6", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")

	DoubleParameter	ra (description="Ra pointing for this channel")
	StringParameter	channelName (description="Channel name")
	QuantifiableParameter	waveunit (description="null")
<i>Columns</i>		
	DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
	DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	IntId	numScans (description="Number Of Scans", quantity="1")
	DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>dataset</i>	table	(name="SSWD1", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel")
	DoubleParameter	ra (description="Ra pointing for this channel")
	StringParameter	channelName (description="Channel name")
	QuantifiableParameter	waveunit (description="null")
<i>Columns</i>		
	DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
	DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	IntId	numScans (description="Number Of Scans", quantity="1")
	DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")

<i>table</i>	(name="SSWD2", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table</i>	(name="SSWD3", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")

	parameter	
<i>Columns</i>		
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")	
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")	
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>table</i>	(name="SSWD4", description="null")	
<i>dataset</i>		
<i>Meta-data</i>		
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")	
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")	
<i>StringParameter</i>	channelName (description="Channel name")	
<i>QuantifiableParameter</i>	waveunit (description="null")	
<i>Columns</i>		
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")	
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")	
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>table</i>	(name="SSWD6", description="null")	
<i>dataset</i>		
<i>Meta-data</i>		
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")	

	DoubleParameter	ra (description="Ra pointing for this channel")
	StringParameter	channelName (description="Channel name")
	QuantifiableParameter	waveunit (description="null")
<i>Columns</i>		
	DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
	DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	IntId	numScans (description="Number Of Scans", quantity="1")
	DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>dataset</i>	table	(name="SSWD7", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel")
	DoubleParameter	ra (description="Ra pointing for this channel")
	StringParameter	channelName (description="Channel name")
	QuantifiableParameter	waveunit (description="null")
<i>Columns</i>		
	DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
	DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	IntId	numScans (description="Number Of Scans", quantity="1")
	DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")

<i>table</i>	(name="SSWE1", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table</i>	(name="SSWE2", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")

parameter	
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table</i>	(name="SSWE3", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")
<i>StringParameter</i>	channelName (description="Channel name")
<i>QuantifiableParameter</i>	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table</i>	(name="SSWE4", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")

	DoubleParameter	ra (description="Ra pointing for this channel")
	StringParameter	channelName (description="Channel name")
	QuantifiableParameter	waveunit (description="null")
<i>Columns</i>		
	DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
	DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	IntId	numScans (description="Number Of Scans", quantity="1")
	DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>dataset</i>	table	(name="SSWE5", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel")
	DoubleParameter	ra (description="Ra pointing for this channel")
	StringParameter	channelName (description="Channel name")
	QuantifiableParameter	waveunit (description="null")
<i>Columns</i>		
	DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
	DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	IntId	numScans (description="Number Of Scans", quantity="1")
	DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")

<i>table</i>	(name="SSWE6", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table</i>	(name="SSWF1", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")

	parameter	
<i>Columns</i>		
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")	
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")	
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>table</i>	(name="SSWF2", description="null")	
<i>dataset</i>		
<i>Meta-data</i>		
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")	
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")	
<i>StringParameter</i>	channelName (description="Channel name")	
<i>QuantifiableParameter</i>	waveunit (description="null")	
<i>Columns</i>		
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")	
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")	
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>table</i>	(name="SSWF3", description="null")	
<i>dataset</i>		
<i>Meta-data</i>		
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")	

	DoubleParameter	ra (description="Ra pointing for this channel")
	StringParameter	channelName (description="Channel name")
	QuantifiableParameter	waveunit (description="null")
<i>Columns</i>		
	DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
	DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	IntId	numScans (description="Number Of Scans", quantity="1")
	DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>dataset</i>	table	(name="SSWF5", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel")
	DoubleParameter	ra (description="Ra pointing for this channel")
	StringParameter	channelName (description="Channel name")
	QuantifiableParameter	waveunit (description="null")
<i>Columns</i>		
	DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
	DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	IntId	numScans (description="Number Of Scans", quantity="1")
	DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")

<i>table</i>	(name="SSWG1", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table</i>	(name="SSWG2", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")

parameter	
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table</i>	(name="SSWG3", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")
<i>StringParameter</i>	channelName (description="Channel name")
<i>QuantifiableParameter</i>	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table</i>	(name="SSWG4", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")

<i>DoubleId</i>	r2 (description="Filter Resistor 2", quantity="Ohm")
<i>DoubleId</i>	r3 (description="Filter Resistor 3", quantity="Ohm")
<i>DoubleId</i>	r4 (description="Filter Resistor 4", quantity="Ohm")
<i>DoubleId</i>	c1 (description="Filter Capacitor 1", quantity="F")
<i>DoubleId</i>	c2 (description="Filter Capacitor 2", quantity="F")

6.3.19. SPIRECAL Product - Spectrometer LR Correction Calibration Table for SLW

<i>product</i> (type="SCalSpecLrCorr", description="Spectrometer LR Correction Calibration Table for SLW")	
<i>Metadata</i>	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	author (description="Author of the data")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
StringParameter	fileName (description="Name of file on export")
StringParameter	version (description="null")
StringParameter	fileOrigin (description="Origin of the data")
<i>Columns</i>	
<i>table dataset</i>	(name="SLW", description="Channel table for SLW array")
<i>Metadata</i>	
<i>Columns</i>	
<i>DoubleId</i>	SLWB2 (description="LR correction curve", quantity="1")
<i>DoubleId</i>	SLWB3 (description="LR correction curve", quantity="1")
<i>DoubleId</i>	SLWC2 (description="LR correction curve", quantity="1")
<i>DoubleId</i>	SLWC3 (description="LR correction curve", quantity="1")
<i>DoubleId</i>	SLWC4 (description="LR correction curve", quantity="1")
<i>DoubleId</i>	SLWD2 (description="LR correction curve", quantity="1")
<i>DoubleId</i>	SLWD3 (description="LR correction curve", quantity="1")

6.3.20. SPIRECAL Product - Spectrometer Non-Linearity Correction Calibration Table

<i>product (type="SCalSpecNonLinCorr", description="Spectrometer Non-Linearity Correction Calibration Table")</i>	
<i>Metadata</i>	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	biasMode (description="Nominal/bright source mode")
StringParameter	author (description="Author of the data")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
DoubleParameter	slwBiasAmpl (description="SLW bias voltage amplitude", quantity="V")
DoubleParameter	sswBiasAmpl (description="SSW bias voltage amplitude", quantity="V")
DateParameter	respControlStamp (description="Responsivity calibration product control date stamp", quantity="V")
StringParameter	fileName (description="null", quantity="V")
StringParameter	dependency (description="Keywords on which product depends", quantity="V")
StringParameter	version (description="null", quantity="V")
StringParameter	sourceTable (description="File name of the source ASCII table", quantity="V")
DoubleParameter	degreeLIADephasingSSW (description="SSW LIA dephasing angle", quantity="deg")
DoubleParameter	degreeLIADephasingSLW (description="SLW LIA dephasing angle", quantity="deg")
DoubleParameter	sswBathTemp (description="SSW reference bath temperature", quantity="K")
DoubleParameter	slwBathTemp (description="SLW reference bath temperature", quantity="K")
StringParameter	fileOrigin (description="Origin of the data", quantity="K")
<i>Columns</i>	
<i>table dataset</i>	<i>(name="SSW", description="Table for SSW array")</i>
<i>Metadata</i>	
DoubleParameter	sswT1RefVoltage (description="SSW T1 reference voltage", quantity="V")
DoubleParameter	sswT1RefVoltageError (description="SSW T1 reference voltage uncertainty", quantity="V")
BooleanParameter	sswT1RefVoltageFlag (description="SSW T1 reference voltage flag", quantity="V")
DoubleParameter	sswT2RefVoltage (description="SSW T2 reference voltage", quantity="V")

DoubleParameter	sswT2RefVoltageError (description="SSW T2 reference voltage uncertainty", quantity="V")
BooleanParameter	sswT2RefVoltageFlag (description="SSW T2 reference voltage flag", quantity="V")
DoubleParameter	sswDP1RefVoltage (description="SSW DK1 reference voltage", quantity="V")
DoubleParameter	sswDP1RefVoltageError (description="SSW DK1 reference voltage uncertainty", quantity="V")
BooleanParameter	sswDP1RefVoltageFlag (description="SSW DK1 reference voltage flag", quantity="V")
DoubleParameter	sswDP2RefVoltage (description="SSW DK2 reference voltage", quantity="V")
DoubleParameter	sswDP2RefVoltageError (description="SSW DK2 reference voltage uncertainty", quantity="V")
BooleanParameter	sswDP2RefVoltageFlag (description="SSW DK2 reference voltage flag", quantity="V")
<i>Columns</i>	
<i>StringId</i>	names (description="Channel names", quantity="1")
<i>FloatId</i>	v0 (description="Zero point voltage", quantity="V")
<i>FloatId</i>	v0Error (description="Zero point voltage error", quantity="V")
<i>BoolId</i>	v0Flag (description="Flag for zero point voltage", quantity="1")
<i>FloatId</i>	k1 (description="First calibration term", quantity="1")
<i>FloatId</i>	k1Error (description="Error in first calibration term", quantity="1")
<i>FloatId</i>	k2 (description="Second calibration term", quantity="V")
<i>FloatId</i>	k2Error (description="Error in second calibration term", quantity="V")
<i>FloatId</i>	k3 (description="Third calibration term", quantity="V")
<i>FloatId</i>	k3Error (description="Error in third calibration term", quantity="V")
<i>BoolId</i>	kFlag (description="Flag for astronomy calibration terms", quantity="1")
<i>FloatId</i>	vMin (description="Minimum voltage limit", quantity="V")
<i>FloatId</i>	vMax (description="Maximum voltage limit", quantity="V")

6.3.21. SPIRECAL Product - Spectrometer Non-Linearity Correction Calibration Table

<i>product (type="SCalSpecNonLinCorr", description="Spectrometer Non-Linearity Correction Calibration Table")</i>	
<i>Metadata</i>	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	biasMode (description="Nominal/bright source mode")

StringParameter	author (description="Author of the data")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
DoubleParameter	slwBiasAmpl (description="SLW bias voltage amplitude", quantity="V")
DoubleParameter	sswBiasAmpl (description="SSW bias voltage amplitude", quantity="V")
DateParameter	respControlStamp (description="Responsivity calibration product control date stamp", quantity="V")
StringParameter	fileName (description="null", quantity="V")
StringParameter	dependency (description="Keywords on which product depends", quantity="V")
StringParameter	version (description="null", quantity="V")
StringParameter	sourceTable (description="File name of the source ASCII table", quantity="V")
DoubleParameter	sswBathTemp (description="SSW reference bath temperature", quantity="K")
DoubleParameter	slwBathTemp (description="SLW reference bath temperature", quantity="K")
DoubleParameter	degreeLIADephasing (description="LIA dephasing angle", quantity="deg")
StringParameter	fileOrigin (description="Origin of the data", quantity="deg")
<i>Columns</i>	
<i>table dataset</i>	(name="SSW", description="Table for SSW array")
<i>Metadata</i>	
DoubleParameter	sswT1RefVoltage (description="SSW T1 reference voltage", quantity="V")
DoubleParameter	sswT1RefVoltageError (description="SSW T1 reference voltage uncertainty", quantity="V")
BooleanParameter	sswT1RefVoltageFlag (description="SSW T1 reference voltage flag", quantity="V")
DoubleParameter	sswT2RefVoltage (description="SSW T2 reference voltage", quantity="V")
DoubleParameter	sswT2RefVoltageError (description="SSW T2 reference voltage uncertainty", quantity="V")
BooleanParameter	sswT2RefVoltageFlag (description="SSW T2 reference voltage flag", quantity="V")
DoubleParameter	sswDP1RefVoltage (description="SSW DK1 reference voltage", quantity="V")
DoubleParameter	sswDP1RefVoltageError (description="SSW DK1 reference voltage uncertainty", quantity="V")
BooleanParameter	sswDP1RefVoltageFlag (description="SSW DK1 reference voltage flag", quantity="V")
DoubleParameter	sswDP2RefVoltage (description="SSW DK2 reference voltage", quantity="V")
DoubleParameter	sswDP2RefVoltageError (description="SSW DK2 reference voltage uncertainty", quantity="V")
BooleanParameter	sswDP2RefVoltageFlag (description="SSW DK2 reference voltage flag", quantity="V")

Columns	
StringId	names (description="Channel names", quantity="1")
FloatId	v0 (description="Zero point voltage", quantity="V")
FloatId	v0Error (description="Zero point voltage error", quantity="V")
BoolId	v0Flag (description="Flag for zero point voltage", quantity="1")
FloatId	k1 (description="First calibration term", quantity="1")
FloatId	k1Error (description="Error in first calibration term", quantity="1")
FloatId	k2 (description="Second calibration term", quantity="V")
FloatId	k2Error (description="Error in second calibration term", quantity="V")
FloatId	k3 (description="Third calibration term", quantity="V")
FloatId	k3Error (description="Error in third calibration term", quantity="V")
BoolId	kFlag (description="Flag for astronomy calibration terms", quantity="1")
FloatId	vMin (description="Minimum voltage limit", quantity="V")
FloatId	vMax (description="Maximum voltage limit", quantity="V")

6.3.22. SPIRECAL Product - Spectrometer Non-Linearity Correction Calibration Table

<i>product (type="SCalSpecNonLinCorr", description="Spectrometer Non-Linearity Correction Calibration Table")</i>	
Metadata	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	biasMode (description="Nominal/bright source mode")
StringParameter	author (description="Author of the data")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
DoubleParameter	slwBiasAmpl (description="SLW bias voltage amplitude", quantity="V")
DoubleParameter	sswBiasAmpl (description="SSW bias voltage amplitude", quantity="V")
DateParameter	respControlStamp (description="Responsivity calibration product control date stamp", quantity="V")
StringParameter	fileName (description="null", quantity="V")
StringParameter	dependency (description="Keywords on which product depends", quantity="V")
StringParameter	version (description="null", quantity="V")
StringParameter	sourceTable (description="File name of the source ASCII table", quantity="V")

DoubleParameter	degreeLIADephasingSSW (description="LIA dephasing angle", quantity="deg")
DoubleParameter	degreeLIADephasingSLW (description="LIA dephasing angle", quantity="deg")
DoubleParameter	sswBathTemp (description="SSW reference bath temperature", quantity="K")
DoubleParameter	slwBathTemp (description="SLW reference bath temperature", quantity="K")
StringParameter	fileOrigin (description="Origin of the data", quantity="K")
<i>Columns</i>	
<i>table dataset</i>	(name="SSW", description="Table for SSW array")
<i>Metadata</i>	
DoubleParameter	sswT1RefVoltage (description="SSW T1 reference voltage", quantity="V")
DoubleParameter	sswT1RefVoltageError (description="SSW T1 reference voltage uncertainty", quantity="V")
BooleanParameter	sswT1RefVoltageFlag (description="SSW T1 reference voltage flag", quantity="V")
DoubleParameter	sswT2RefVoltage (description="SSW T2 reference voltage", quantity="V")
DoubleParameter	sswT2RefVoltageError (description="SSW T2 reference voltage uncertainty", quantity="V")
BooleanParameter	sswT2RefVoltageFlag (description="SSW T2 reference voltage flag", quantity="V")
DoubleParameter	sswDP1RefVoltage (description="SSW DK1 reference voltage", quantity="V")
DoubleParameter	sswDP1RefVoltageError (description="SSW DK1 reference voltage uncertainty", quantity="V")
BooleanParameter	sswDP1RefVoltageFlag (description="SSW DK1 reference voltage flag", quantity="V")
DoubleParameter	sswDP2RefVoltage (description="SSW DK2 reference voltage", quantity="V")
DoubleParameter	sswDP2RefVoltageError (description="SSW DK2 reference voltage uncertainty", quantity="V")
BooleanParameter	sswDP2RefVoltageFlag (description="SSW DK2 reference voltage flag", quantity="V")
<i>Columns</i>	
<i>StringId</i>	names (description="Channel names", quantity="1")
<i>FloatId</i>	v0 (description="Zero point voltage", quantity="V")
<i>FloatId</i>	v0Error (description="Zero point voltage error", quantity="V")
<i>BoolId</i>	v0Flag (description="Flag for zero point voltage", quantity="1")
<i>FloatId</i>	k1 (description="First calibration term", quantity="1")
<i>FloatId</i>	k1Error (description="Error in first calibration term", quantity="1")
<i>FloatId</i>	k2 (description="Second calibration term", quantity="V")
<i>FloatId</i>	k2Error (description="Error in second calibration term", quantity="V")
<i>FloatId</i>	k3 (description="Third calibration term", quantity="V")
<i>FloatId</i>	k3Error (description="Error in third calibration term", quantity="V")

	<i>Bool1d</i>	kFlag (description="Flag for astronomy calibration terms", quantity="1")
	<i>Float1d</i>	vMin (description="Minimum voltage limit", quantity="V")
	<i>Float1d</i>	vMax (description="Maximum voltage limit", quantity="V")

6.3.23. SPIRECAL Product - Spectrometer Channel Offset History

<i>product</i> (type="SCalSpecOffsetHist", description="Spectrometer Channel Offset History")		
<i>Metadata</i>		
StringParameter	instrument (description="Instrument attached to this product")	
StringParameter	subsystem (description="Instrument subsystem")	
StringParameter	creator (description="Generator of this product")	
LongParameter	odNumber (description="Operational day number")	
DateParameter	creationDate (description="Creation date of this product")	
DateParameter	startDate (description="Start date of this product")	
DateParameter	endDate (description="End date of this product")	
StringParameter	modelName (description="Model name attached to this product")	
StringParameter	formatVersion (description="Version of product format")	
StringParameter	type (description="Product Type Identification")	
StringParameter	description (description="Name of this product")	
StringParameter	version (description="version")	
<i>Columns</i>		
<i>table dataset</i>	(name="table", description="null")	
<i>Metadata</i>		
<i>Columns</i>		
<i>Double1d</i>	sampleTime (description="Sample time", quantity="s")	
<i>Int1d</i>	SSWA1 (description="SSWA1 signal offset", quantity="1")	
<i>Int1d</i>	SSWA2 (description="SSWA2 signal offset", quantity="1")	
<i>Int1d</i>	SSWA3 (description="SSWA3 signal offset", quantity="1")	
<i>Int1d</i>	SSWA4 (description="SSWA4 signal offset", quantity="1")	
<i>Int1d</i>	SSWB1 (description="SSWB1 signal offset", quantity="1")	
<i>Int1d</i>	SSWB2 (description="SSWB2 signal offset", quantity="1")	
<i>Int1d</i>	SSWB3 (description="SSWB3 signal offset", quantity="1")	
<i>Int1d</i>	SSWB4 (description="SSWB4 signal offset", quantity="1")	
<i>Int1d</i>	SSWB5 (description="SSWB5 signal offset", quantity="1")	
<i>Int1d</i>	SSWC1 (description="SSWC1 signal offset", quantity="1")	
<i>Int1d</i>	SSWC2 (description="SSWC2 signal offset", quantity="1")	
<i>Int1d</i>	SSWC3 (description="SSWC3 signal offset", quantity="1")	
<i>Int1d</i>	SSWC4 (description="SSWC4 signal offset", quantity="1")	
<i>Int1d</i>	SSWC5 (description="SSWC5 signal offset", quantity="1")	

<i>Int1d</i>	SSWC6 (description="SSWC6 signal offset", quantity="1")
<i>Int1d</i>	SSWD1 (description="SSWD1 signal offset", quantity="1")
<i>Int1d</i>	SSWD2 (description="SSWD2 signal offset", quantity="1")
<i>Int1d</i>	SSWD3 (description="SSWD3 signal offset", quantity="1")
<i>Int1d</i>	SSWD4 (description="SSWD4 signal offset", quantity="1")
<i>Int1d</i>	SSWD5 (description="SSWD5 signal offset", quantity="1")
<i>Int1d</i>	SSWD6 (description="SSWD6 signal offset", quantity="1")
<i>Int1d</i>	SSWD7 (description="SSWD7 signal offset", quantity="1")
<i>Int1d</i>	SSWE1 (description="SSWE1 signal offset", quantity="1")
<i>Int1d</i>	SSWE2 (description="SSWE2 signal offset", quantity="1")
<i>Int1d</i>	SSWE3 (description="SSWE3 signal offset", quantity="1")
<i>Int1d</i>	SSWE4 (description="SSWE4 signal offset", quantity="1")
<i>Int1d</i>	SSWE5 (description="SSWE5 signal offset", quantity="1")
<i>Int1d</i>	SSWE6 (description="SSWE6 signal offset", quantity="1")
<i>Int1d</i>	SSWF1 (description="SSWF1 signal offset", quantity="1")
<i>Int1d</i>	SSWF2 (description="SSWF2 signal offset", quantity="1")
<i>Int1d</i>	SSWF3 (description="SSWF3 signal offset", quantity="1")
<i>Int1d</i>	SSWF4 (description="SSWF4 signal offset", quantity="1")
<i>Int1d</i>	SSWF5 (description="SSWF5 signal offset", quantity="1")
<i>Int1d</i>	SSWG1 (description="SSWG1 signal offset", quantity="1")
<i>Int1d</i>	SSWG2 (description="SSWG2 signal offset", quantity="1")
<i>Int1d</i>	SSWG3 (description="SSWG3 signal offset", quantity="1")
<i>Int1d</i>	SSWG4 (description="SSWG4 signal offset", quantity="1")
<i>Int1d</i>	SSWDP1 (description="SSWDP1 signal offset", quantity="1")
<i>Int1d</i>	SSWDP2 (description="SSWDP2 signal offset", quantity="1")
<i>Int1d</i>	SSWN1 (description="SSWN1 signal offset", quantity="1")
<i>Int1d</i>	SSWN2 (description="SSWN2 signal offset", quantity="1")
<i>Int1d</i>	SSWN3 (description="SSWN3 signal offset", quantity="1")
<i>Int1d</i>	SSWN4 (description="SSWN4 signal offset", quantity="1")
<i>Int1d</i>	SSWN5 (description="SSWN5 signal offset", quantity="1")
<i>Int1d</i>	SSWN6 (description="SSWN6 signal offset", quantity="1")
<i>Int1d</i>	SSWR1 (description="SSWR1 signal offset", quantity="1")
<i>Int1d</i>	SSWT1 (description="SSWT1 signal offset", quantity="1")
<i>Int1d</i>	SSWT2 (description="SSWT2 signal offset", quantity="1")
<i>Int1d</i>	SLWA1 (description="SLWA1 signal offset", quantity="1")
<i>Int1d</i>	SLWA2 (description="SLWA2 signal offset", quantity="1")
<i>Int1d</i>	SLWA3 (description="SLWA3 signal offset", quantity="1")
<i>Int1d</i>	SLWB1 (description="SLWB1 signal offset", quantity="1")
<i>Int1d</i>	SLWB2 (description="SLWB2 signal offset", quantity="1")
<i>Int1d</i>	SLWB3 (description="SLWB3 signal offset", quantity="1")
<i>Int1d</i>	SLWB4 (description="SLWB4 signal offset", quantity="1")
<i>Int1d</i>	SLWC1 (description="SLWC1 signal offset", quantity="1")

<i>Int1d</i>	SLWC2 (description="SLWC2 signal offset", quantity="1")
<i>Int1d</i>	SLWC3 (description="SLWC3 signal offset", quantity="1")
<i>Int1d</i>	SLWC4 (description="SLWC4 signal offset", quantity="1")
<i>Int1d</i>	SLWC5 (description="SLWC5 signal offset", quantity="1")
<i>Int1d</i>	SLWD1 (description="SLWD1 signal offset", quantity="1")
<i>Int1d</i>	SLWD2 (description="SLWD2 signal offset", quantity="1")
<i>Int1d</i>	SLWD3 (description="SLWD3 signal offset", quantity="1")
<i>Int1d</i>	SLWD4 (description="SLWD4 signal offset", quantity="1")
<i>Int1d</i>	SLWE1 (description="SLWE1 signal offset", quantity="1")
<i>Int1d</i>	SLWE2 (description="SLWE2 signal offset", quantity="1")
<i>Int1d</i>	SLWE3 (description="SLWE3 signal offset", quantity="1")
<i>Int1d</i>	SLWDP1 (description="SLWDP1 signal offset", quantity="1")
<i>Int1d</i>	SLWDP2 (description="SLWDP2 signal offset", quantity="1")
<i>Int1d</i>	SLWR1 (description="SLWR1 signal offset", quantity="1")
<i>Int1d</i>	SLWT1 (description="SLWT1 signal offset", quantity="1")
<i>Int1d</i>	SLWT2 (description="SLWT2 signal offset", quantity="1")
<i>Long1d</i>	obsid (description="Observation ID", quantity="1")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

6.3.24. SPIRECAL Product - Spectrometer OPD Correction Calibration Table

<i>product (type="SCalSpecOpdCorr", description="Spectrometer OPD Correction Calibration Table")</i>	
<i>Metadata</i>	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	author (description="Author of the data")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
StringParameter	fileName (description="Name of file on output")
StringParameter	version (description="null")
StringParameter	fileOrigin (description="Origin of the data")
<i>Columns</i>	

<i>table dataset</i>	(name="SLW", description="Table for SLW")			
<i>Metadata</i>				
<i>Columns</i>				
<i>DoubleId</i>	opd (description="null", quantity="none")			
<i>DoubleId</i>	forward (description="null", quantity="none")			
<i>DoubleId</i>	reverse (description="null", quantity="none")			
	()			
<i>table dataset</i>	Dataset similar to the one above with (name="SSW", description="Table for SSW")			

6.3.25. SPIRECAL Product - Spectrometer Opd Limits Table

<i>product (type="SCalSpecOpdLimits", description="Spectrometer Opd Limits Table")</i>				
<i>Metadata</i>				
StringParameter	instrument (description="Instrument attached to this product")			
StringParameter	creator (description="Generator of this product")			
DateParameter	creationDate (description="Creation date of this product")			
DateParameter	startDate (description="Start date of this product")			
DateParameter	endDate (description="End date of this product")			
StringParameter	modelName (description="Model name attached to this product")			
StringParameter	formatVersion (description="Version of product format")			
StringParameter	type (description="Product Type Identification")			
StringParameter	description (description="Name of this product")			
StringParameter	fileName (description="null")			
StringParameter	version (description="null")			
<i>Columns</i>				
<i>table dataset</i>	(name="table", description="OPD Limit Table")			
<i>Metadata</i>				
<i>Columns</i>				
<i>StringId</i>	resolution (description="Spectral Resoluuion", quantity="1")			
<i>DoubleId</i>	minOpd (description="Minimum OPD", quantity="cm")			
<i>DoubleId</i>	maxOpd (description="Maximum OPD", quantity="cm")			

6.3.26. SPIRECAL Product - Spectrometer Optical Crosstalk Table

<i>product (type="SCalSpecOptCross", description="Spectrometer Optical Crosstalk Table")</i>				
<i>Metadata</i>				
StringParameter	instrument (description="Instrument attached to this product")			

StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
StringParameter	fileName (description="null")
StringParameter	version (description="null")
<i>Columns</i>	
<i>table dataset</i>	(name="SSW", description="Table for SSW array")
<i>Metadata</i>	
<i>Columns</i>	
<i>StringId</i>	names (description="Channel names", quantity="1")
<i>DoubleId</i>	SSWA1 (description="Crosstalk values", quantity="1")
<i>DoubleId</i>	SSWA2 (description="Crosstalk values", quantity="1")
<i>DoubleId</i>	SSWA3 (description="Crosstalk values", quantity="1")
<i>DoubleId</i>	SSWA4 (description="Crosstalk values", quantity="1")
<i>DoubleId</i>	SSWB1 (description="Crosstalk values", quantity="1")
<i>DoubleId</i>	SSWB2 (description="Crosstalk values", quantity="1")
<i>DoubleId</i>	SSWB3 (description="Crosstalk values", quantity="1")
<i>DoubleId</i>	SSWB4 (description="Crosstalk values", quantity="1")
<i>DoubleId</i>	SSWB5 (description="Crosstalk values", quantity="1")
<i>DoubleId</i>	SSWC1 (description="Crosstalk values", quantity="1")
<i>DoubleId</i>	SSWC2 (description="Crosstalk values", quantity="1")
<i>DoubleId</i>	SSWC3 (description="Crosstalk values", quantity="1")
<i>DoubleId</i>	SSWC4 (description="Crosstalk values", quantity="1")
<i>DoubleId</i>	SSWC5 (description="Crosstalk values", quantity="1")
<i>DoubleId</i>	SSWC6 (description="Crosstalk values", quantity="1")
<i>DoubleId</i>	SSWD1 (description="Crosstalk values", quantity="1")
<i>DoubleId</i>	SSWD2 (description="Crosstalk values", quantity="1")
<i>DoubleId</i>	SSWD3 (description="Crosstalk values", quantity="1")
<i>DoubleId</i>	SSWD4 (description="Crosstalk values", quantity="1")
<i>DoubleId</i>	SSWD5 (description="Crosstalk values", quantity="1")
<i>DoubleId</i>	SSWD6 (description="Crosstalk values", quantity="1")
<i>DoubleId</i>	SSWD7 (description="Crosstalk values", quantity="1")
<i>DoubleId</i>	SSWE1 (description="Crosstalk values", quantity="1")
<i>DoubleId</i>	SSWE2 (description="Crosstalk values", quantity="1")
<i>DoubleId</i>	SSWE3 (description="Crosstalk values", quantity="1")
<i>DoubleId</i>	SSWE4 (description="Crosstalk values", quantity="1")

<i>Double1d</i>	SSWE5 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWE6 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWF1 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWF2 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWF3 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWF4 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWF5 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWG1 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWG2 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWG3 (description="Crosstalk values", quantity="1")
<i>Double1d</i>	SSWG4 (description="Crosstalk values", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="SLW", description="Table for SLW array")

6.3.27. SPIRECAL Product - Spectrometer Pcal Table

<i>product (type="SpecPcal", description="Spectrometer Pcal Table")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	naifId (description="SSO NAIF identifier")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
LongParameter	jiggId (description="Jiggle ID")
LongParameter	pointNum (description="Pointing number")

DoubleParameter	biasFreq (description="Bias frequency", quantity="Hz")
StringParameter	elecSide (description="Electronic side", quantity="Hz")
StringParameter	modelName (description="Model name attached to this product", quantity="Hz")
StringParameter	formatVersion (description="Version of product format", quantity="Hz")
StringParameter	missionConfig (description="null", quantity="Hz")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
StringParameter	origin (description="Site that created the product", quantity="arcsec a-1")
StringParameter	type (description="Product Type Identification", quantity="arcsec a-1")
StringParameter	description (description="Name of this product", quantity="arcsec a-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="arcsec a-1")
StringParameter	level (description="The level of the product", quantity="arcsec a-1")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec a-1")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec a-1")
StringParameter	signalTable (description="Name of the signal table", quantity="arcsec a-1")
LongParameter	maskDead (description="Mask value for dead channel", quantity="arcsec a-1")
LongParameter	maskMaster (description="Mask value for master bit", quantity="arcsec a-1")
LongParameter	maskNoisy (description="Mask value for noisy channel", quantity="arcsec a-1")
LongParameter	maskSlow (description="Mask value for slow channel", quantity="arcsec a-1")
BooleanParameter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="arcsec a-1")
DoubleParameter	ratioTruncatedSSW (description="Maximum ratio of out of range values to total number of values in SSW data", quantity="arcsec a-1")
DoubleParameter	ratioTruncatedSLW (description="Maximum ratio of out of range values to total number of values in SLW data", quantity="arcsec a-1")
LongParameter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="arcsec a-1")
LongParameter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="arcsec a-1")
LongParameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="arcsec a-1")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="arcsec a-1")

LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="arcsec a-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
DoubleParameter	slwBiasAmpl (description="SLW bias amplitude", quantity="V")
DoubleParameter	sswBiasAmpl (description="SSW bias amplitude", quantity="V")
DoubleParameter	slwBiasPhase (description="SLW bias phase", quantity="rad")
DoubleParameter	sswBiasPhase (description="SSW bias phase", quantity="rad")
BooleanParameter	rcRollApp (description="RC roll correction applied", quantity="rad")
DoubleParameter	subkTempDrift (description="Drift measured by the SubK temperature probe", quantity="K")
StringParameter	version (description="version", quantity="K")
LongParameter	level05Index (description="The index of the corresponding Level-0.5 scan", quantity="K")
Columns	
table dataset	(name="SSW", description="Table for SSW array")
Metadata	
Columns	
StringId	names (description="Channel names", quantity="1")
BoolId	hasData (description=" Indicates whether detector was present (True/False)", quantity="1")
DoubleId	baseMean (description="Ensemble means of base levels", quantity="V")
DoubleId	baseStdDev (description="Std.Dev. of Mean Base Levels", quantity="V")
DoubleId	signalDiffMean (description="Mean of Signal Differences", quantity="V")
DoubleId	signalDiffStdDev (description="Std.Dev. of Signal Differences", quantity="V")
DoubleId	flashMean (description=" Ensemble Mean of Flash Levels", quantity="V")
DoubleId	baseNoise (description=" Base Noise = Sqrt(SumOfSquares(Flash-Off Std.Dev.)/NumFlashes)", quantity="V")
DoubleId	flashStdDev (description=" Std.Dev. of Flash Levels", quantity="V")
DoubleId	stdDevOfMeanSignalDifferences (description="Std.Dev. of Mean Signal Differences", quantity="V")
DoubleId	flashStableSamples (description="Mean # of Samples in the stable parts of the flash-on intervals", quantity="1")
DoubleId	baseStableSamples (description="Mean # of Samples in the stable parts of the flash-off intervals", quantity="1")
DoubleId	settleTimeOnMean (description="Mean of duration of start of flash intervals prior to stability", quantity="ms")
DoubleId	settleTimeOnStdDev (description="StdDev. of duration of start of flash intervals prior to stability", quantity="ms")

<i>DoubleId</i>	settleTimeOffMean (description="Mean of duration of start of base level intervals prior to stability", quantity="ms")
<i>DoubleId</i>	settleTimeOffStdDev (description="StdDev of duration of start of base level intervals prior to stability", quantity="ms")
<i>IntId</i>	numFlashes (description="Number of base level/flash pairs used in calc.", quantity="1")
<i>DoubleId</i>	tauOnMean (description="Mean of Flash-on Time Constant", quantity="1")
<i>DoubleId</i>	tauOnStdDev (description="StdDev of Flash-on Time Constant", quantity="1")
<i>BoolId</i>	isOnFitSuccess (description="Success of Flash Time Constant (True/False)", quantity="1")
<i>DoubleId</i>	tauOffMean (description="Mean of Base Level Time Constant", quantity="1")
<i>DoubleId</i>	tauOffStdDev (description="Std.Dev. of Base Level Time Constant", quantity="1")
<i>BoolId</i>	isOffFitSuccess (description="Success of Base Level Time Constant (True/False)", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="SLW", description="Table for SLW array")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

6.3.28. SPIRECAL Product - Spectrometer Pcal Table

<i>product (type="SpecPcal", description="Spectrometer Pcal Table")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")
LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")

StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
LongParameter	jiggId (description="Jiggle ID")
LongParameter	pointNum (description="Pointing number")
DoubleParameter	biasFreq (description="Bias frequency", quantity="Hz")
StringParameter	elecSide (description="Electronic side", quantity="Hz")
StringParameter	modelName (description="Model name attached to this product", quantity="Hz")
StringParameter	formatVersion (description="Version of product format", quantity="Hz")
StringParameter	missionConfig (description="Mission configuration", quantity="Hz")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
StringParameter	origin (description="Site that created the product", quantity="arcsec a-1")
StringParameter	type (description="Product Type Identification", quantity="arcsec a-1")
StringParameter	description (description="Name of this product", quantity="arcsec a-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="arcsec a-1")
StringParameter	level (description="The level of the product", quantity="arcsec a-1")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec a-1")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec a-1")
StringParameter	signalTable (description="Name of the signal table", quantity="arcsec a-1")
LongParameter	maskDead (description="Mask value for dead channel", quantity="arcsec a-1")
LongParameter	maskMaster (description="Mask value for master bit", quantity="arcsec a-1")
LongParameter	maskNoisy (description="Mask value for noisy channel", quantity="arcsec a-1")
LongParameter	maskSlow (description="Mask value for slow channel", quantity="arcsec a-1")
BooleanParameter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="arcsec a-1")
DoubleParameter	ratioTruncatedSSW (description="Maximum ratio of out of range values to total number of values in SSW data", quantity="arcsec a-1")
DoubleParameter	ratioTruncatedSLW (description="Maximum ratio of out of range values to total number of values in SLW data", quantity="arcsec a-1")

LongParameter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="arcsec a-1")
LongParameter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="arcsec a-1")
LongParameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="arcsec a-1")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="arcsec a-1")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="arcsec a-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
DoubleParameter	slwBiasAmpl (description="SLW bias amplitude", quantity="V")
DoubleParameter	sswBiasAmpl (description="SSW bias amplitude", quantity="V")
DoubleParameter	slwBiasPhase (description="SLW bias phase", quantity="rad")
DoubleParameter	sswBiasPhase (description="SSW bias phase", quantity="rad")
BooleanParameter	rcRollApp (description="RC roll correction applied", quantity="rad")
DoubleParameter	subkTempDrift (description="Drift measured by the SubK temperature probe", quantity="K")
StringParameter	version (description="version", quantity="K")
LongParameter	level05Index (description="The index of the corresponding Level-0.5 scan", quantity="K")
<i>Columns</i>	
<i>table dataset</i>	(name="SSW", description="Table for SSW array")
<i>Metadata</i>	
<i>Columns</i>	
<i>StringId</i>	names (description="Channel names", quantity="1")
<i>BoolId</i>	hasData (description=" Indicates whether detector was present (True/False)", quantity="1")
<i>DoubleId</i>	baseMean (description="Ensemble means of base levels", quantity="V")
<i>DoubleId</i>	baseStdDev (description="Std.Dev. of Mean Base Levels", quantity="V")
<i>DoubleId</i>	signalDiffMean (description="Mean of Signal Differences", quantity="V")
<i>DoubleId</i>	signalDiffStdDev (description="Std.Dev. of Signal Differences", quantity="V")
<i>DoubleId</i>	flashMean (description=" Ensemble Mean of Flash Levels", quantity="V")
<i>DoubleId</i>	baseNoise (description=" Base Noise = Sqrt(SumOfSquares(Flash-Off Std.Dev.)/NumFlashes)", quantity="V")
<i>DoubleId</i>	flashStdDev (description=" Std.Dev. of Flash Levels", quantity="V")
<i>DoubleId</i>	stdDevOfMeanSignalDifferences (description="Std.Dev. of Mean Signal Differences", quantity="V")

<i>DoubleId</i>	flashStableSamples (description="Mean # of Samples in the stable parts of the flash-on intervals", quantity="1")
<i>DoubleId</i>	baseStableSamples (description="Mean # of Samples in the stable parts of the flash-off intervals", quantity="1")
<i>DoubleId</i>	settleTimeOnMean (description="Mean of duration of start of flash intervals prior to stability", quantity="ms")
<i>DoubleId</i>	settleTimeOnStdDev (description="StdDev. of duration of start of flash intervals prior to stability", quantity="ms")
<i>DoubleId</i>	settleTimeOffMean (description="Mean of duration of start of base level intervals prior to stability", quantity="ms")
<i>DoubleId</i>	settleTimeOffStdDev (description="StdDev of duration of start of base level intervals prior to stability", quantity="ms")
<i>IntId</i>	numFlashes (description="Number of base level/flash pairs used in calc.", quantity="1")
<i>DoubleId</i>	tauOnMean (description="Mean of Flash-on Time Constant", quantity="1")
<i>DoubleId</i>	tauOnStdDev (description="StdDev of Flash-on Time Constant", quantity="1")
<i>BoolId</i>	isOnFitSuccess (description="Success of Flash Time Constant (True/False)", quantity="1")
<i>DoubleId</i>	tauOffMean (description="Mean of Base Level Time Constant", quantity="1")
<i>DoubleId</i>	tauOffStdDev (description="Std.Dev. of Base Level Time Constant", quantity="1")
<i>BoolId</i>	isOffFitSuccess (description="Success of Base Level Time Constant (True/False)", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="SLW", description="Table for SLW array")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

6.3.29. SPIRECAL Product - Spectrometer Pcal Table

<i>product (type="SpecPcal", description="Spectrometer Pcal Table")</i>	
<i>Metadata</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	source (description="TM source packet name")
StringParameter	creator (description="Generator of this product")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
StringParameter	proposal (description="Proposal name")
LongParameter	obsid (description="Observation identifier")

LongParameter	odNumber (description="Operational day number")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aot (description="AOT Identifier")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	cusMode (description="CUS observation mode")
StringParameter	instMode (description="Instrument Mode")
StringParameter	obsMode (description="Observation mode name")
StringParameter	pointingMode (description="Pointing mode")
StringParameter	biasMode (description="Bias mode")
DoubleParameter	biasFreq (description="Bias frequency", quantity="Hz")
StringParameter	elecSide (description="Electronic side", quantity="Hz")
StringParameter	modelName (description="Model name attached to this product", quantity="Hz")
StringParameter	formatVersion (description="Version of product format", quantity="Hz")
StringParameter	missionConfig (description="Mission configuration", quantity="Hz")
DoubleParameter	equinox (description="Equinox of celestial coordinate system", quantity="Hz")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC", quantity="Hz")
DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
DoubleParameter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
DoubleParameter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
StringParameter	origin (description="Site that created the product", quantity="arcsec a-1")
StringParameter	type (description="Product Type Identification", quantity="arcsec a-1")
StringParameter	description (description="Name of this product", quantity="arcsec a-1")
StringParameter	engConvCalVersion (description="Version of the calibration tree used in engineering conversion", quantity="arcsec a-1")
StringParameter	level (description="The level of the product", quantity="arcsec a-1")
LongParameter	bbid (description="Building Block Identifier", quantity="arcsec a-1")
StringParameter	bbTypeName (description="Building block type name", quantity="arcsec a-1")
StringParameter	signalTable (description="Name of the signal table", quantity="arcsec a-1")
LongParameter	maskDead (description="Mask value for dead channel", quantity="arcsec a-1")
LongParameter	maskMaster (description="Mask value for master bit", quantity="arcsec a-1")
LongParameter	maskNoisy (description="Mask value for noisy channel", quantity="arcsec a-1")
LongParameter	maskSlow (description="Mask value for slow channel", quantity="arcsec a-1")

BooleanParameter	adcErrFlag (description="Flag for presence of ADC Latch errors", quantity="arcsec a-1")
DoubleParameter	ratioTruncatedSSW (description="Maximum ratio of out of range values to total number of values in SSW data", quantity="arcsec a-1")
DoubleParameter	ratioTruncatedSLW (description="Maximum ratio of out of range values to total number of values in SLW data", quantity="arcsec a-1")
LongParameter	maskAdcLatch (description="Mask value for possible ADC latchup error", quantity="arcsec a-1")
LongParameter	maskTruncated (description="Mask value for ADC conversion truncation", quantity="arcsec a-1")
LongParameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation", quantity="arcsec a-1")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times", quantity="arcsec a-1")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time", quantity="arcsec a-1")
DoubleParameter	timeOffset (description="Time offset added to correct the shift between detectors and pointing timing", quantity="s")
DoubleParameter	timeDrift (description="Time drift added to correct the shift between detectors and pointing timing", quantity="ms/min")
BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation", quantity="ms/min")
DoubleParameter	slwBiasAmpl (description="SLW bias amplitude", quantity="V")
DoubleParameter	sswBiasAmpl (description="SSW bias amplitude", quantity="V")
DoubleParameter	slwBiasPhase (description="SLW bias phase", quantity="rad")
DoubleParameter	sswBiasPhase (description="SSW bias phase", quantity="rad")
BooleanParameter	rcRollApp (description="RC roll correction applied", quantity="rad")
DoubleParameter	subkTempDrift (description="Drift measured by the SubK temperature probe", quantity="K")
StringParameter	version (description="version", quantity="K")
LongParameter	level05Index (description="The index of the corresponding Level-0.5 scan", quantity="K")
<i>Columns</i>	
<i>table dataset</i>	(name="SSW", description="Table for SSW array")
<i>Metadata</i>	
<i>Columns</i>	
<i>StringId</i>	names (description="Channel names", quantity="1")
<i>BoolId</i>	hasData (description=" Indicates whether detector was present (True/False)", quantity="1")
<i>DoubleId</i>	baseMean (description="Ensemble means of base levels", quantity="V")
<i>DoubleId</i>	baseStdDev (description="Std.Dev. of Mean Base Levels", quantity="V")
<i>DoubleId</i>	signalDiffMean (description="Mean of Signal Differences", quantity="V")
<i>DoubleId</i>	signalDiffStdDev (description="Std.Dev. of Signal Differences", quantity="V")

<i>DoubleId</i>	flashMean (description=" Ensemble Mean of Flash Levels", quantity="V")
<i>DoubleId</i>	baseNoise (description=" Base Noise = Sqrt(SumOfSquares(Flash-Off Std.Dev.)/NumFlashes)", quantity="V")
<i>DoubleId</i>	flashStdDev (description=" Std.Dev. of Flash Levels", quantity="V")
<i>DoubleId</i>	stdDevOfMeanSignalDifferences (description="Std.Dev. of Mean Signal Differences", quantity="V")
<i>DoubleId</i>	flashStableSamples (description="Mean # of Samples in the stable parts of the flash-on intervals", quantity="1")
<i>DoubleId</i>	baseStableSamples (description="Mean # of Samples in the stable parts of the flash-off intervals", quantity="1")
<i>DoubleId</i>	settleTimeOnMean (description="Mean of duration of start of flash intervals prior to stability", quantity="ms")
<i>DoubleId</i>	settleTimeOnStdDev (description="StdDev. of duration of start of flash intervals prior to stability", quantity="ms")
<i>DoubleId</i>	settleTimeOffMean (description="Mean of duration of start of base level intervals prior to stability", quantity="ms")
<i>DoubleId</i>	settleTimeOffStdDev (description="StdDev of duration of start of base level intervals prior to stability", quantity="ms")
<i>IntId</i>	numFlashes (description="Number of base level/flash pairs used in calc.", quantity="1")
<i>DoubleId</i>	tauOnMean (description="Mean of Flash-on Time Constant", quantity="1")
<i>DoubleId</i>	tauOnStdDev (description="StdDev of Flash-on Time Constant", quantity="1")
<i>BoolId</i>	isOnFitSuccess (description="Success of Flash Time Constant (True/False)", quantity="1")
<i>DoubleId</i>	tauOffMean (description="Mean of Base Level Time Constant", quantity="1")
<i>DoubleId</i>	tauOffStdDev (description="Std.Dev. of Base Level Time Constant", quantity="1")
<i>BoolId</i>	isOffFitSuccess (description="Success of Base Level Time Constant (True/False)", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="SLW", description="Table for SLW array")
	()
<i>composite dataset</i>	Dataset similar to the one above with (name="History", description="History of product")

6.3.30. SPIRECAL Product - Spectrometer Pcal Response Model Table

<i>product</i> (type="SCalSpecPcalModel", description="Spectrometer Pcal Response Model Table")	
<i>Metadata</i>	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")

DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	author (description="Author of the data")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
StringParameter	fileName (description="null")
StringParameter	version (description="null")
StringParameter	fileOrigin (description="Origin of the data")
<i>Columns</i>	
<i>table dataset</i>	(name="SSW", description="Channel table for SSW array")
<i>Metadata</i>	
<i>Columns</i>	
<i>Double1d</i>	time (description="Time", quantity="s")
<i>Double1d</i>	SSWA1 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	SSWA2 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	SSWA3 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	SSWA4 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	SSWB1 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	SSWB2 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	SSWB3 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	SSWB4 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	SSWB5 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	SSWC1 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	SSWC2 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	SSWC3 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	SSWC4 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	SSWC5 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	SSWC6 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	SSWD1 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	SSWD2 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	SSWD3 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	SSWD4 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	SSWD5 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	SSWD6 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	SSWD7 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	SSWE1 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	SSWE2 (description="Normalised Pcal Response", quantity="1")
<i>Double1d</i>	SSWE3 (description="Normalised Pcal Response", quantity="1")

<i>DoubleId</i>	SSWE4 (description="Normalised Pcal Response", quantity="1")
<i>DoubleId</i>	SSWE5 (description="Normalised Pcal Response", quantity="1")
<i>DoubleId</i>	SSWE6 (description="Normalised Pcal Response", quantity="1")
<i>DoubleId</i>	SSWF1 (description="Normalised Pcal Response", quantity="1")
<i>DoubleId</i>	SSWF2 (description="Normalised Pcal Response", quantity="1")
<i>DoubleId</i>	SSWF3 (description="Normalised Pcal Response", quantity="1")
<i>DoubleId</i>	SSWF4 (description="Normalised Pcal Response", quantity="1")
<i>DoubleId</i>	SSWF5 (description="Normalised Pcal Response", quantity="1")
<i>DoubleId</i>	SSWG1 (description="Normalised Pcal Response", quantity="1")
<i>DoubleId</i>	SSWG2 (description="Normalised Pcal Response", quantity="1")
<i>DoubleId</i>	SSWG3 (description="Normalised Pcal Response", quantity="1")
<i>DoubleId</i>	SSWG4 (description="Normalised Pcal Response", quantity="1")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="SLW", description="Channel table for SLW array")

6.3.31. SPIRECAL Product - Spectrometer Phase Correction Limits

<i>product</i> (type="SCalSpecPhaseCorrLim", description="Spectrometer Phase Correction Limits")	
<i>Metadata</i>	
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
StringParameter	fileName (description="null")
StringParameter	version (description="null")
<i>Columns</i>	
<i>table dataset</i>	(name="SSW", description="Table for SSW array")
<i>Metadata</i>	
<i>Columns</i>	
<i>StringId</i>	names (description="Channel names", quantity="1")
<i>DoubleId</i>	low (description="Low wavenumber edge", quantity="GHz")
<i>DoubleId</i>	high (description="High wavenumber edge", quantity="GHz")
	()

<i>table dataset</i>				Dataset similar to the one above with (name="SLW", description="Table for SLW array")	

6.3.32. SPIRECAL Product - Spectrometer Step Factor Table

<i>product (type="SCalSpecSmecStepFactor", description="Spectrometer Step Factor Table")</i>					
<i>Metadata</i>					
StringParameter	instrument	(description="Instrument attached to this product")			
StringParameter	creator	(description="Generator of this product")			
DateParameter	creationDate	(description="Creation date of this product")			
DateParameter	startDate	(description="Start date of this product")			
DateParameter	endDate	(description="End date of this product")			
StringParameter	author	(description="Author of the data")			
StringParameter	modelName	(description="Model name attached to this product")			
StringParameter	formatVersion	(description="Version of product format")			
StringParameter	type	(description="Product Type Identification")			
StringParameter	description	(description="Name of this product")			
StringParameter	fileName	(description="null")			
StringParameter	version	(description="null")			
StringParameter	fileOrigin	(description="Origin of the data")			
<i>Columns</i>					
<i>table dataset</i>		<i>(name="SSW", description="Table for SSW array")</i>			
<i>Metadata</i>					
<i>Columns</i>					
	<i>StringId</i>	names	(description="Channel names", quantity="1")		
	<i>DoubleId</i>	stepFactor	(description="Step Factor", quantity="none")		
	<i>DoubleId</i>	stepFactorError	(description="Error on Step Factor", quantity="none")		
		()			
<i>table dataset</i>		Dataset similar to the one above with (name="SLW", description="Table for SLW array")			

6.3.33. SPIRECAL Product - Spectrometer Optical Encoder at ZPD Table

<i>product (type="SCalSpecSmecZpd", description="Spectrometer Optical Encoder at ZPD Table")</i>					
<i>Metadata</i>					
StringParameter	instrument	(description="Instrument attached to this product")			
StringParameter	creator	(description="Generator of this product")			
DateParameter	creationDate	(description="Creation date of this product")			
DateParameter	startDate	(description="Start date of this product")			

DateParameter	endDate (description="End date of this product")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	type (description="Product Type Identification")
StringParameter	description (description="Name of this product")
StringParameter	fileName (description="null")
StringParameter	dependency (description="Keywords on which product depends")
StringParameter	version (description="null")
Columns	
table dataset	(name="SSW", description="Table for SSW array")
Metadata	
Columns	
StringId	names (description="Channel names", quantity="1")
DoubleId	optEnc (description="Optical Encoder at ZPD", quantity="cm")
DoubleId	optEncError (description="Error on Optical Encoder at ZPD", quantity="cm")
DoubleId	lvdt (description="LVDT DC Signal at ZPD", quantity="1")
DoubleId	lvdtError (description="Error on LVDT DC Signal at ZPD", quantity="1")
	()
table dataset	Dataset similar to the one above with (name="SLW", description="Table for SLW array")

6.3.34. SPIRECAL Product - Spectrometer OD-dependent Telescope Model Correction

<i>product (type="SCalSpecTeleModel", description="Spectrometer OD-dependent Telescope Model Correction")</i>	
Meta- da- ta	
String- Pa- ram- e- ter	telescope (description="Name of telescope")
String- Pa- ram- e- ter	instrument (description="Instrument attached to this product")
String- Pa- ram-	subsystem (description="Instrument subsystem")

e- ter	
String- Pa- ram- e- ter	source (description="TM source packet name")
String- Pa- ram- e- ter	creator (description="Generator of this product")
String- Pa- ram- e- ter	object (description="Target name")
String- Pa- ram- e- ter	observer (description="Observer name")
String- Pa- ram- e- ter	proposal (description="Proposal name")
Long- Pa- ram- e- ter	obsid (description="Observation identifier")
Long- Pa- ram- e- ter	odNumber (description="Operational day number")
DatePa- ram- e- ter	creationDate (description="Creation date of this product")
DatePa- ram- e- ter	startDate (description="Start date of this product")
DatePa- ram- e- ter	endDate (description="End date of this product")
String- Pa- ram-	aot (description="AOT Identifier")

e- ter	
String- Pa- ram- e- ter	aorLabel (description="AOR Label as entered in HSpot")
String- Pa- ram- e- ter	cusMode (description="CUS observation mode")
String- Pa- ram- e- ter	instMode (description="Instrument Mode")
String- Pa- ram- e- ter	obsMode (description="Observation mode name")
String- Pa- ram- e- ter	pointingMode (description="Pointing mode")
String- Pa- ram- e- ter	commandedResolution (description="Commanded Spectral Resolution")
String- Pa- ram- e- ter	author (description="Author of the data")
String- Pa- ram- e- ter	modelName (description="Model name attached to this product")
String- Pa- ram- e- ter	formatVersion (description="Version of product format")
String- Pa- ram- e- ter	missionConfig (description="Mission configuration")
DoublePa-	equinox (description="Equinox of celestial coordinate system")

ram- e- ter	
String- Pa- ram- e- ter	raDeSys (description="Coordinate reference frame for the RA and DEC")
Dou- blePa- ram- e- ter	ra (description="Actual Right Ascension of pointing", quantity="deg")
Dou- blePa- ram- e- ter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
Dou- blePa- ram- e- ter	dec (description="Actual Declination of pointing", quantity="deg")
Dou- blePa- ram- e- ter	decNominal (description="Requested Declination of pointing", quantity="deg")
Dou- blePa- ram- e- ter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
Dou- blePa- ram- e- ter	pmRA (description="Target's proper motion RA (arcsec/yr) as given by the observer", quantity="arcsec a-1")
Dou- blePa- ram- e- ter	pmDEC (description="Target's proper motion Dec (arcsec/yr) as given by the observer", quantity="arcsec a-1")
String- Pa- ram- e- ter	origin (description="Site that created the product", quantity="arcsec a-1")
String- Pa- ram- e- ter	type (description="Product Type Identification", quantity="arcsec a-1")

String-Parameter	description (description="Name of this product", quantity="arcsec a-1")
Long-Parameter	numScans (description="Number of scans", quantity="arcsec a-1")
Long-Parameter	bbid (description="Building Block Identifier", quantity="arcsec a-1")
String-Parameter	freqFrame (description="Standard of rest for spectral axis", quantity="arcsec a-1")
String-Parameter	apodType (description="Type of Apodization applied", quantity="arcsec a-1")
String-Parameter	apodName (description="Name of Apodization function applied", quantity="arcsec a-1")
Boolean-Parameter	phaseCorrApplied (description="Phase correction has been applied", quantity="arcsec a-1")
String-Parameter	fileName (description="null", quantity="arcsec a-1")
String-Parameter	version (description="null", quantity="arcsec a-1")
String-Parameter	fileOrigin (description="Origin of the data", quantity="arcsec a-1")
Columns	

<i>com- pos- ite</i>	(description="null")
<i>Meta- da- ta</i>	
Long- Pa- ram- eter	count (description="Set Number")
Long- Pa- ram- eter	scanNumber (description="Scan Number")
String- Pa- ram- eter	scanDir (description="Scan Direction")
DatePa- ram- eter	scanStartDate (description="Start date of the FTS scan")
DatePa- ram- eter	scanEndDate (description="End date of the FTS scan")
Dou- blePa- ram- eter	resolution (description="Spectral Resolution")
<i>Columns</i>	
<i>ta- ble dataset</i>	(name="SLWA1", description="null")
<i>Meta- data</i>	
String- Pa- ram- eter	channelName (description="Channel name")
<i>Columns</i>	
<i>IntId</i>	odNumber (description="Operational Day", quantity="1")
<i>Dou- bleId</i>	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
<i>ta- ble dataset</i>	(name="SLWA2", description="null")
<i>Meta- data</i>	
String- Pa- ram- eter	channelName (description="Channel name")

<i>Columns</i>	
<i>Int1d</i>	odNumber (description="Operational Day", quantity="1")
<i>Double1d</i>	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
<i>table</i>	(name="SLWA3", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>String-Parameter</i>	channelName (description="Channel name")
<i>Columns</i>	
<i>Int1d</i>	odNumber (description="Operational Day", quantity="1")
<i>Double1d</i>	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
<i>table</i>	(name="SLWB1", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>String-Parameter</i>	channelName (description="Channel name")
<i>Columns</i>	
<i>Int1d</i>	odNumber (description="Operational Day", quantity="1")
<i>Double1d</i>	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
<i>table</i>	(name="SLWB2", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>String-Parameter</i>	channelName (description="Channel name")
<i>Columns</i>	
<i>Int1d</i>	odNumber (description="Operational Day", quantity="1")
<i>Double1d</i>	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
<i>table</i>	(name="SLWB3", description="null")
<i>dataset</i>	
<i>Meta-data</i>	

	String-Parameter	channelName (description="Channel name")
Columns		
	IntId	odNumber (description="Operational Day", quantity="1")
	DoubleId	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
table dataset		(name="SLWB4", description="null")
Meta-data		
	String-Parameter	channelName (description="Channel name")
Columns		
	IntId	odNumber (description="Operational Day", quantity="1")
	DoubleId	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
table dataset		(name="SLWC1", description="null")
Meta-data		
	String-Parameter	channelName (description="Channel name")
Columns		
	IntId	odNumber (description="Operational Day", quantity="1")
	DoubleId	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
table dataset		(name="SLWC2", description="null")
Meta-data		
	String-Parameter	channelName (description="Channel name")
Columns		
	IntId	odNumber (description="Operational Day", quantity="1")
	DoubleId	emFactorM1 (description="M1 emissivity correction factor", quantity="1")

<i>table</i>	(name="SLWC3", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>String-Parameter</i>	channelName (description="Channel name")
<i>Columns</i>	
<i>IntId</i>	odNumber (description="Operational Day", quantity="1")
<i>DoubleId</i>	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
<i>table</i>	(name="SLWC4", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>String-Parameter</i>	channelName (description="Channel name")
<i>Columns</i>	
<i>IntId</i>	odNumber (description="Operational Day", quantity="1")
<i>DoubleId</i>	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
<i>table</i>	(name="SLWC5", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>String-Parameter</i>	channelName (description="Channel name")
<i>Columns</i>	
<i>IntId</i>	odNumber (description="Operational Day", quantity="1")
<i>DoubleId</i>	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
<i>table</i>	(name="SLWD1", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>String-Parameter</i>	channelName (description="Channel name")
<i>Columns</i>	

	<i>Int1d</i>	odNumber (description="Operational Day", quantity="1")
	<i>Double1d</i>	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SLWD2", description="null")
<i>Meta-data</i>		
<i>String-Parameter</i>		channelName (description="Channel name")
<i>Columns</i>		
	<i>Int1d</i>	odNumber (description="Operational Day", quantity="1")
	<i>Double1d</i>	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SLWD3", description="null")
<i>Meta-data</i>		
<i>String-Parameter</i>		channelName (description="Channel name")
<i>Columns</i>		
	<i>Int1d</i>	odNumber (description="Operational Day", quantity="1")
	<i>Double1d</i>	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SLWD4", description="null")
<i>Meta-data</i>		
<i>String-Parameter</i>		channelName (description="Channel name")
<i>Columns</i>		
	<i>Int1d</i>	odNumber (description="Operational Day", quantity="1")
	<i>Double1d</i>	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SLWE1", description="null")
<i>Meta-data</i>		
<i>String-Parameter</i>		channelName (description="Channel name")

	parameter	
Columns		
	<i>Int1d</i>	odNumber (description="Operational Day", quantity="1")
	<i>Double1d</i>	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
dataset	table	(name="SLWE2", description="null")
Meta-data		
	String-Parameter	channelName (description="Channel name")
Columns		
	<i>Int1d</i>	odNumber (description="Operational Day", quantity="1")
	<i>Double1d</i>	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
dataset	table	(name="SLWE3", description="null")
Meta-data		
	String-Parameter	channelName (description="Channel name")
Columns		
	<i>Int1d</i>	odNumber (description="Operational Day", quantity="1")
	<i>Double1d</i>	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
dataset	table	(name="SSWA1", description="null")
Meta-data		
	String-Parameter	channelName (description="Channel name")
Columns		
	<i>Int1d</i>	odNumber (description="Operational Day", quantity="1")
	<i>Double1d</i>	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
dataset	table	(name="SSWA2", description="null")

<i>Meta-data</i>	
<i>String-Parameter</i>	channelName (description="Channel name")
<i>Columns</i>	
<i>IntId</i>	odNumber (description="Operational Day", quantity="1")
<i>DoubleId</i>	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
<i>table dataset</i>	(name="SSWA3", description="null")
<i>Meta-data</i>	
<i>String-Parameter</i>	channelName (description="Channel name")
<i>Columns</i>	
<i>IntId</i>	odNumber (description="Operational Day", quantity="1")
<i>DoubleId</i>	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
<i>table dataset</i>	(name="SSWA4", description="null")
<i>Meta-data</i>	
<i>String-Parameter</i>	channelName (description="Channel name")
<i>Columns</i>	
<i>IntId</i>	odNumber (description="Operational Day", quantity="1")
<i>DoubleId</i>	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
<i>table dataset</i>	(name="SSWB1", description="null")
<i>Meta-data</i>	
<i>String-Parameter</i>	channelName (description="Channel name")
<i>Columns</i>	
<i>IntId</i>	odNumber (description="Operational Day", quantity="1")
<i>DoubleId</i>	emFactorM1 (description="M1 emissivity correction factor", quantity="1")

<i>table</i>	(name="SSWB2", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>String-Parameter</i>	channelName (description="Channel name")
<i>Columns</i>	
<i>Int1d</i>	odNumber (description="Operational Day", quantity="1")
<i>Double1d</i>	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
<i>table</i>	(name="SSWB3", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>String-Parameter</i>	channelName (description="Channel name")
<i>Columns</i>	
<i>Int1d</i>	odNumber (description="Operational Day", quantity="1")
<i>Double1d</i>	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
<i>table</i>	(name="SSWB4", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>String-Parameter</i>	channelName (description="Channel name")
<i>Columns</i>	
<i>Int1d</i>	odNumber (description="Operational Day", quantity="1")
<i>Double1d</i>	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
<i>table</i>	(name="SSWB5", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>String-Parameter</i>	channelName (description="Channel name")
<i>Columns</i>	

<i>Int1d</i>	odNumber (description="Operational Day", quantity="1")
	<i>Double1d</i> emFactorM1 (description="M1 emissivity correction factor", quantity="1")
	<i>table</i> (name="SSWC1", description="null")
	<i>dataset</i>
	<i>Meta-data</i>
<i>String-Parameter</i>	channelName (description="Channel name")
	<i>Columns</i>
	<i>Int1d</i> odNumber (description="Operational Day", quantity="1")
	<i>Double1d</i> emFactorM1 (description="M1 emissivity correction factor", quantity="1")
	<i>table</i> (name="SSWC2", description="null")
<i>dataset</i>	
	<i>Meta-data</i>
	<i>String-Parameter</i> channelName (description="Channel name")
	<i>Columns</i>
	<i>Int1d</i> odNumber (description="Operational Day", quantity="1")
<i>Double1d</i>	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
	<i>table</i> (name="SSWC3", description="null")
	<i>dataset</i>
	<i>Meta-data</i>
	<i>String-Parameter</i> channelName (description="Channel name")
<i>Columns</i>	
	<i>Int1d</i> odNumber (description="Operational Day", quantity="1")
	<i>Double1d</i> emFactorM1 (description="M1 emissivity correction factor", quantity="1")
	<i>table</i> (name="SSWC4", description="null")
	<i>dataset</i>
<i>Meta-data</i>	
	<i>String-Parameter</i> channelName (description="Channel name")

	parameter	
Columns		
	IntId	odNumber (description="Operational Day", quantity="1")
	DoubleId	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
table		(name="SSWC5", description="null")
dataset		
Meta-data		
String-Parameter		channelName (description="Channel name")
Columns		
	IntId	odNumber (description="Operational Day", quantity="1")
	DoubleId	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
table		(name="SSWC6", description="null")
dataset		
Meta-data		
String-Parameter		channelName (description="Channel name")
Columns		
	IntId	odNumber (description="Operational Day", quantity="1")
	DoubleId	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
table		(name="SSWD1", description="null")
dataset		
Meta-data		
String-Parameter		channelName (description="Channel name")
Columns		
	IntId	odNumber (description="Operational Day", quantity="1")
	DoubleId	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
table		(name="SSWD2", description="null")
dataset		

<i>Meta-data</i>	
<i>String-Parameter</i>	channelName (description="Channel name")
<i>Columns</i>	
<i>IntId</i>	odNumber (description="Operational Day", quantity="1")
<i>DoubleId</i>	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
<i>table dataset</i>	(name="SSWD3", description="null")
<i>Meta-data</i>	
<i>String-Parameter</i>	channelName (description="Channel name")
<i>Columns</i>	
<i>IntId</i>	odNumber (description="Operational Day", quantity="1")
<i>DoubleId</i>	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
<i>table dataset</i>	(name="SSWD4", description="null")
<i>Meta-data</i>	
<i>String-Parameter</i>	channelName (description="Channel name")
<i>Columns</i>	
<i>IntId</i>	odNumber (description="Operational Day", quantity="1")
<i>DoubleId</i>	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
<i>table dataset</i>	(name="SSWD5", description="null")
<i>Meta-data</i>	
<i>String-Parameter</i>	channelName (description="Channel name")
<i>Columns</i>	
<i>IntId</i>	odNumber (description="Operational Day", quantity="1")
<i>DoubleId</i>	emFactorM1 (description="M1 emissivity correction factor", quantity="1")

<i>table</i>	(name="SSWD6", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>String-Parameter</i>	channelName (description="Channel name")
<i>Columns</i>	
<i>IntId</i>	odNumber (description="Operational Day", quantity="1")
<i>DoubleId</i>	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
<i>table</i>	(name="SSWD7", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>String-Parameter</i>	channelName (description="Channel name")
<i>Columns</i>	
<i>IntId</i>	odNumber (description="Operational Day", quantity="1")
<i>DoubleId</i>	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
<i>table</i>	(name="SSWE1", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>String-Parameter</i>	channelName (description="Channel name")
<i>Columns</i>	
<i>IntId</i>	odNumber (description="Operational Day", quantity="1")
<i>DoubleId</i>	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
<i>table</i>	(name="SSWE2", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
<i>String-Parameter</i>	channelName (description="Channel name")
<i>Columns</i>	

	<i>Int1d</i>	odNumber (description="Operational Day", quantity="1")
	<i>Double1d</i>	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWE3", description="null")
	<i>Meta-data</i>	
<i>Columns</i>	<i>String-Parameter</i>	channelName (description="Channel name")
	<i>Int1d</i>	odNumber (description="Operational Day", quantity="1")
	<i>Double1d</i>	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWE4", description="null")
	<i>Meta-data</i>	
<i>Columns</i>	<i>String-Parameter</i>	channelName (description="Channel name")
	<i>Int1d</i>	odNumber (description="Operational Day", quantity="1")
	<i>Double1d</i>	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWE5", description="null")
	<i>Meta-data</i>	
<i>Columns</i>	<i>String-Parameter</i>	channelName (description="Channel name")
	<i>Int1d</i>	odNumber (description="Operational Day", quantity="1")
	<i>Double1d</i>	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWE6", description="null")
	<i>Meta-data</i>	
<i>Columns</i>	<i>String-Parameter</i>	channelName (description="Channel name")

	parameter	
Columns		
	<i>Int1d</i>	odNumber (description="Operational Day", quantity="1")
	<i>Double1d</i>	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
dataset	<i>table</i>	(name="SSWF1", description="null")
Meta-data		
	String-Parameter	channelName (description="Channel name")
Columns		
	<i>Int1d</i>	odNumber (description="Operational Day", quantity="1")
	<i>Double1d</i>	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
dataset	<i>table</i>	(name="SSWF2", description="null")
Meta-data		
	String-Parameter	channelName (description="Channel name")
Columns		
	<i>Int1d</i>	odNumber (description="Operational Day", quantity="1")
	<i>Double1d</i>	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
dataset	<i>table</i>	(name="SSWF3", description="null")
Meta-data		
	String-Parameter	channelName (description="Channel name")
Columns		
	<i>Int1d</i>	odNumber (description="Operational Day", quantity="1")
	<i>Double1d</i>	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
dataset	<i>table</i>	(name="SSWF4", description="null")

<i>Meta-data</i>	
<i>String-Parameter</i>	channelName (description="Channel name")
<i>Columns</i>	
<i>IntId</i>	odNumber (description="Operational Day", quantity="1")
<i>DoubleId</i>	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
<i>table dataset</i>	(name="SSWF5", description="null")
<i>Meta-data</i>	
<i>String-Parameter</i>	channelName (description="Channel name")
<i>Columns</i>	
<i>IntId</i>	odNumber (description="Operational Day", quantity="1")
<i>DoubleId</i>	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
<i>table dataset</i>	(name="SSWG1", description="null")
<i>Meta-data</i>	
<i>String-Parameter</i>	channelName (description="Channel name")
<i>Columns</i>	
<i>IntId</i>	odNumber (description="Operational Day", quantity="1")
<i>DoubleId</i>	emFactorM1 (description="M1 emissivity correction factor", quantity="1")
<i>table dataset</i>	(name="SSWG2", description="null")
<i>Meta-data</i>	
<i>String-Parameter</i>	channelName (description="Channel name")
<i>Columns</i>	
<i>IntId</i>	odNumber (description="Operational Day", quantity="1")
<i>DoubleId</i>	emFactorM1 (description="M1 emissivity correction factor", quantity="1")

table	<i>(name="SSWG3", description="null")</i>	
dataset		
Meta-data		
String-Parameter	channelName (description="Channel name")	
Columns		
IntId	odNumber (description="Operational Day", quantity="1")	
DoubleId	emFactorM1 (description="M1 emissivity correction factor", quantity="1")	
table	<i>(name="SSWG4", description="null")</i>	
dataset		
Meta-data		
String-Parameter	channelName (description="Channel name")	
Columns		
IntId	odNumber (description="Operational Day", quantity="1")	
DoubleId	emFactorM1 (description="M1 emissivity correction factor", quantity="1")	

6.3.35. SPIRECAL Product - Spectrometer Telescope RSRF

Meta-data	<i>product (type="SCalSpecTeleRsrF", description="Spectrometer Telescope RSRF")</i>	
String-Parameter	telescope (description="Name of telescope")	
String-Parameter	instrument (description="Instrument attached to this product")	
String-Parameter	subsystem (description="Instrument Subsystem")	

String-Parameter	creator (description="Generator of this product")
Long-Parameter	obsid (description="Observation identifier")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
Long-Parameter	jiggId (description="Jiggle ID")
String-Parameter	commandedResolution (description="Commanded Spectral Resolution")
String-Parameter	author (description="Author of the data")
String-Parameter	modelName (description="Model name attached to this product")
String-Parameter	formatVersion (description="Version of product format")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")

String- Pa- ram- e- ter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoublePa- ram- e- ter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoublePa- ram- e- ter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoublePa- ram- e- ter	dec (description="Actual Declination of pointing", quantity="deg")
DoublePa- ram- e- ter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoublePa- ram- e- ter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
String- Pa- ram- e- ter	type (description="Product Type Identification", quantity="deg")
String- Pa- ram- e- ter	description (description="Name of this product", quantity="deg")
String- Pa- ram- e- ter	processResolution (description="The resolution that is to be used or was used to process the data", quantity="deg")
Long- Pa- ram- e- ter	numScans (description="Number of scans", quantity="deg")
String- Pa- ram-	apodName (description="Apodization function applied", quantity="deg")

	e- ter	
String- Pa- ram- e- ter		fileName (description="null", quantity="deg")
String- Pa- ram- e- ter		dependency (description="Keywords on which product depends", quantity="deg")
String- Pa- ram- e- ter		version (description="null", quantity="deg")
String- Pa- ram- e- ter		obsidsUsed (description="Obsids used to create product", quantity="deg")
String- Pa- ram- e- ter		fileOrigin (description="Origin of the data", quantity="deg")
<i>Columns</i>		
<i>com- pos- ite</i>		(description="null")
<i>Meta- da- ta</i>		
Long- Pa- ram- eter		count (description="Set number")
Long- Pa- ram- eter		scanNumber (description="Scan number")
String- Pa- ram- eter		scanDir (description="Scan direction")
DatePa- ram- eter		scanStartDate (description="Start date of the FTS scan")
DatePa- ram- eter		scanEndDate (description="End date of the FTS scan")

<i>Columns</i>	<i>table</i>	(name="SLWA1", description="null")
	<i>dataset</i>	
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")
	<i>StringParameter</i>	channelName (description="Channel name")
<i>QuantifiableParameter</i>	waveunit (description="null")	
<i>Columns</i>	<i>Double1d</i>	wave (description="Unspecified wave-like data", quantity="GHz")
	<i>Double1d</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>Double1d</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>Int1d</i>	numScans (description="Number Of Scans", quantity="1")
	<i>table</i>	(name="SLWA2", description="null")
	<i>dataset</i>	
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")
	<i>StringParameter</i>	channelName (description="Channel name")
<i>QuantifiablePa-</i>	waveunit (description="null")	

	parameter	
<i>Columns</i>		
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")	
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")	
<i>table</i>	(name="SLWA3", description="null")	
<i>dataset</i>		
<i>Meta-data</i>		
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")	
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")	
<i>StringParameter</i>	channelName (description="Channel name")	
<i>QuantifiableParameter</i>	waveunit (description="null")	
<i>Columns</i>		
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")	
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")	
<i>table</i>	(name="SLWB1", description="null")	
<i>dataset</i>		
<i>Meta-data</i>		
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")	

	DoubleParameter	ra (description="Ra pointing for this channel")
	StringParameter	channelName (description="Channel name")
	QuantifiableParameter	waveunit (description="null")
<i>Columns</i>		
	DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
	DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SLWB2", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel")
	DoubleParameter	ra (description="Ra pointing for this channel")
	StringParameter	channelName (description="Channel name")
	QuantifiableParameter	waveunit (description="null")
<i>Columns</i>		
	DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
	DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
	IntId	numScans (description="Number Of Scans", quantity="1")

<i>table</i>	(name="SLWB3", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i>	(name="SLWB4", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")

	parameter	
<i>Columns</i>		
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")	
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")	
<i>table</i>	(name="SLWC1", description="null")	
<i>dataset</i>		
<i>Meta-data</i>		
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")	
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")	
<i>StringParameter</i>	channelName (description="Channel name")	
<i>QuantifiableParameter</i>	waveunit (description="null")	
<i>Columns</i>		
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")	
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")	
<i>table</i>	(name="SLWC2", description="null")	
<i>dataset</i>		
<i>Meta-data</i>		
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")	

	DoubleParameter	ra (description="Ra pointing for this channel")
	StringParameter	channelName (description="Channel name")
	QuantifiableParameter	waveunit (description="null")
<i>Columns</i>		
	Double1d	wave (description="Unspecified wave-like data", quantity="GHz")
	Double1d	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	Double1d	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
	Int1d	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SLWC3", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel")
	DoubleParameter	ra (description="Ra pointing for this channel")
	StringParameter	channelName (description="Channel name")
	QuantifiableParameter	waveunit (description="null")
<i>Columns</i>		
	Double1d	wave (description="Unspecified wave-like data", quantity="GHz")
	Double1d	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	Double1d	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
	Int1d	numScans (description="Number Of Scans", quantity="1")

<i>table</i>	(name="SLWC4", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>Double1d</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>Double1d</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>Double1d</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>Int1d</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i>	(name="SLWC5", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")

	parameter	
<i>Columns</i>		
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")	
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")	
<i>table</i>	(name="SLWD1", description="null")	
<i>dataset</i>		
<i>Meta-data</i>		
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")	
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")	
<i>StringParameter</i>	channelName (description="Channel name")	
<i>QuantifiableParameter</i>	waveunit (description="null")	
<i>Columns</i>		
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")	
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")	
<i>table</i>	(name="SLWD2", description="null")	
<i>dataset</i>		
<i>Meta-data</i>		
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")	

	DoubleParameter	ra (description="Ra pointing for this channel")
	StringParameter	channelName (description="Channel name")
	QuantifiableParameter	waveunit (description="null")
<i>Columns</i>		
	DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
	DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SLWD3", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel")
	DoubleParameter	ra (description="Ra pointing for this channel")
	StringParameter	channelName (description="Channel name")
	QuantifiableParameter	waveunit (description="null")
<i>Columns</i>		
	DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
	DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
	IntId	numScans (description="Number Of Scans", quantity="1")

<i>table</i>	(name="SLWD4", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i>	(name="SLWE1", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")

	parameter	
<i>Columns</i>		
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")	
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")	
<i>table</i>	(name="SLWE2", description="null")	
<i>dataset</i>		
<i>Meta-data</i>		
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")	
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")	
<i>StringParameter</i>	channelName (description="Channel name")	
<i>QuantifiableParameter</i>	waveunit (description="null")	
<i>Columns</i>		
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")	
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")	
<i>table</i>	(name="SLWE3", description="null")	
<i>dataset</i>		
<i>Meta-data</i>		
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")	

	DoubleParameter	ra (description="Ra pointing for this channel")
	StringParameter	channelName (description="Channel name")
	QuantifiableParameter	waveunit (description="null")
<i>Columns</i>		
	DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
	DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SSWA1", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel")
	DoubleParameter	ra (description="Ra pointing for this channel")
	StringParameter	channelName (description="Channel name")
	QuantifiableParameter	waveunit (description="null")
<i>Columns</i>		
	DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
	DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
	IntId	numScans (description="Number Of Scans", quantity="1")

<i>table</i>	(name="SSWA2", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
Double1d	wave (description="Unspecified wave-like data", quantity="GHz")
Double1d	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
Double1d	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
Int1d	numScans (description="Number Of Scans", quantity="1")
<i>table</i>	(name="SSWA3", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")

	parameter	
<i>Columns</i>		
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")	
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")	
<i>table</i>	(name="SSWA4", description="null")	
<i>dataset</i>		
<i>Meta-data</i>		
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")	
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")	
<i>StringParameter</i>	channelName (description="Channel name")	
<i>QuantifiableParameter</i>	waveunit (description="null")	
<i>Columns</i>		
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")	
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")	
<i>table</i>	(name="SSWBI", description="null")	
<i>dataset</i>		
<i>Meta-data</i>		
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")	

	DoubleParameter	ra (description="Ra pointing for this channel")
	StringParameter	channelName (description="Channel name")
	QuantifiableParameter	waveunit (description="null")
<i>Columns</i>		
	DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
	DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWB2", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel")
	DoubleParameter	ra (description="Ra pointing for this channel")
	StringParameter	channelName (description="Channel name")
	QuantifiableParameter	waveunit (description="null")
<i>Columns</i>		
	DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
	DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
	IntId	numScans (description="Number Of Scans", quantity="1")

<i>table</i>	(name="SSWB3", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
Double1d	wave (description="Unspecified wave-like data", quantity="GHz")
Double1d	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
Double1d	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
Int1d	numScans (description="Number Of Scans", quantity="1")
<i>table</i>	(name="SSWB4", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")

	parameter	
<i>Columns</i>		
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")	
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")	
<i>table</i>	(name="SSWB5", description="null")	
<i>dataset</i>		
<i>Meta-data</i>		
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")	
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")	
<i>StringParameter</i>	channelName (description="Channel name")	
<i>QuantifiableParameter</i>	waveunit (description="null")	
<i>Columns</i>		
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")	
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")	
<i>table</i>	(name="SSWC1", description="null")	
<i>dataset</i>		
<i>Meta-data</i>		
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")	

	DoubleParameter	ra (description="Ra pointing for this channel")
	StringParameter	channelName (description="Channel name")
	QuantifiableParameter	waveunit (description="null")
<i>Columns</i>		
	DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
	DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWC2", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel")
	DoubleParameter	ra (description="Ra pointing for this channel")
	StringParameter	channelName (description="Channel name")
	QuantifiableParameter	waveunit (description="null")
<i>Columns</i>		
	DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
	DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
	IntId	numScans (description="Number Of Scans", quantity="1")

<i>table</i>	(name="SSWC3", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>Double1d</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>Double1d</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>Double1d</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>Int1d</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i>	(name="SSWC4", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")

	parameter	
<i>Columns</i>		
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")	
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")	
<i>table</i>	(name="SSWC5", description="null")	
<i>dataset</i>		
<i>Meta-data</i>		
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")	
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")	
<i>StringParameter</i>	channelName (description="Channel name")	
<i>QuantifiableParameter</i>	waveunit (description="null")	
<i>Columns</i>		
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")	
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")	
<i>table</i>	(name="SSWC6", description="null")	
<i>dataset</i>		
<i>Meta-data</i>		
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")	

	DoubleParameter	ra (description="Ra pointing for this channel")
	StringParameter	channelName (description="Channel name")
	QuantifiableParameter	waveunit (description="null")
<i>Columns</i>		
	DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
	DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SSWD1", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel")
	DoubleParameter	ra (description="Ra pointing for this channel")
	StringParameter	channelName (description="Channel name")
	QuantifiableParameter	waveunit (description="null")
<i>Columns</i>		
	DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
	DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
	IntId	numScans (description="Number Of Scans", quantity="1")

<i>table</i>	(name="SSWD2", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>Double1d</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>Double1d</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>Double1d</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>Int1d</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i>	(name="SSWD3", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")

	parameter	
<i>Columns</i>		
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")	
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")	
<i>table</i>	(name="SSWD4", description="null")	
<i>dataset</i>		
<i>Meta-data</i>		
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")	
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")	
<i>StringParameter</i>	channelName (description="Channel name")	
<i>QuantifiableParameter</i>	waveunit (description="null")	
<i>Columns</i>		
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")	
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")	
<i>table</i>	(name="SSWD6", description="null")	
<i>dataset</i>		
<i>Meta-data</i>		
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")	

	DoubleParameter	ra (description="Ra pointing for this channel")
	StringParameter	channelName (description="Channel name")
	QuantifiableParameter	waveunit (description="null")
<i>Columns</i>		
	DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
	DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWD7", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel")
	DoubleParameter	ra (description="Ra pointing for this channel")
	StringParameter	channelName (description="Channel name")
	QuantifiableParameter	waveunit (description="null")
<i>Columns</i>		
	DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
	DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
	IntId	numScans (description="Number Of Scans", quantity="1")

<i>table</i>	(name="SSWE1", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
Double1d	wave (description="Unspecified wave-like data", quantity="GHz")
Double1d	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
Double1d	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
Int1d	numScans (description="Number Of Scans", quantity="1")
<i>table</i>	(name="SSWE2", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")

	parameter	
<i>Columns</i>		
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")	
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")	
<i>table</i>	(name="SSWE3", description="null")	
<i>dataset</i>		
<i>Meta-data</i>		
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")	
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")	
<i>StringParameter</i>	channelName (description="Channel name")	
<i>QuantifiableParameter</i>	waveunit (description="null")	
<i>Columns</i>		
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")	
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")	
<i>table</i>	(name="SSWE4", description="null")	
<i>dataset</i>		
<i>Meta-data</i>		
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")	

	DoubleParameter	ra (description="Ra pointing for this channel")
	StringParameter	channelName (description="Channel name")
	QuantifiableParameter	waveunit (description="null")
<i>Columns</i>		
	DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
	DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWE5", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel")
	DoubleParameter	ra (description="Ra pointing for this channel")
	StringParameter	channelName (description="Channel name")
	QuantifiableParameter	waveunit (description="null")
<i>Columns</i>		
	DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
	DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
	IntId	numScans (description="Number Of Scans", quantity="1")

<i>table</i>	(name="SSWE6", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i>	(name="SSWF1", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")

	parameter	
<i>Columns</i>		
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")	
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")	
<i>table</i>	(name="SSWF2", description="null")	
<i>dataset</i>		
<i>Meta-data</i>		
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")	
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")	
<i>StringParameter</i>	channelName (description="Channel name")	
<i>QuantifiableParameter</i>	waveunit (description="null")	
<i>Columns</i>		
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")	
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")	
<i>table</i>	(name="SSWF3", description="null")	
<i>dataset</i>		
<i>Meta-data</i>		
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")	

	DoubleParameter	ra (description="Ra pointing for this channel")
	StringParameter	channelName (description="Channel name")
	QuantifiableParameter	waveunit (description="null")
<i>Columns</i>		
	DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
	DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
	IntId	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	table	(name="SSWF5", description="null")
<i>Meta-data</i>		
	DoubleParameter	dec (description="Dec pointing for this channel")
	DoubleParameter	ra (description="Ra pointing for this channel")
	StringParameter	channelName (description="Channel name")
	QuantifiableParameter	waveunit (description="null")
<i>Columns</i>		
	DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
	DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
	IntId	numScans (description="Number Of Scans", quantity="1")

<i>table</i>	(name="SSWG1", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i>	(name="SSWG2", description="null")
<i>dataset</i>	
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")

	parameter	
<i>Columns</i>		
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")	
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")	
<i>table</i>	(name="SSWG3", description="null")	
<i>dataset</i>		
<i>Meta-data</i>		
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")	
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")	
<i>StringParameter</i>	channelName (description="Channel name")	
<i>QuantifiableParameter</i>	waveunit (description="null")	
<i>Columns</i>		
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")	
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")	
<i>table</i>	(name="SSWG4", description="null")	
<i>dataset</i>		
<i>Meta-data</i>		
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")	

DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")

6.3.36. SPIRECAL Product - Spectrometer Telescope RSRF

<i>product (type="SCalSpecTeleRsrif", description="Spectrometer Telescope RSRF")</i>	
<i>Meta-data</i>	
StringParameter	telescope (description="Name of telescope")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	subsystem (description="Instrument Subsystem")
StringParameter	creator (description="Generator of this product")

Long-Parameter	obsid (description="Observation identifier")
DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
Long-Parameter	jiggId (description="Jiggle ID")
String-Parameter	commandedResolution (description="Commanded Spectral Resolution")
String-Parameter	author (description="Author of the data")
String-Parameter	modelName (description="Model name attached to this product")
String-Parameter	formatVersion (description="Version of product format")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
String-Parameter	raDeSys (description="Coordinate reference frame for the RA and DEC")

DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	type (description="Product Type Identification", quantity="deg")
StringParameter	description (description="Name of this product", quantity="deg")
StringParameter	processResolution (description="The resolution that is to be used or was used to process the data", quantity="deg")
LongParameter	numScans (description="Number of scans", quantity="deg")
StringParameter	apodName (description="Apodization function applied", quantity="deg")
StringParameter	fileName (description="null", quantity="deg")

	e-ter	
String-Parameter	dependency (description="Keywords on which product depends", quantity="deg")	
String-Parameter	version (description="null", quantity="deg")	
String-Parameter	obsidsUsed (description="Obsids used to create product", quantity="deg")	
String-Parameter	fileOrigin (description="Origin of the data", quantity="deg")	
<i>Columns</i>		
<i>composite</i>	(description="null")	
<i>Meta-data</i>		
Long-Parameter	count (description="Set number")	
Long-Parameter	scanNumber (description="Scan number")	
String-Parameter	scanDir (description="Scan direction")	
DateParameter	scanStartDate (description="Start date of the FTS scan")	
DateParameter	scanEndDate (description="End date of the FTS scan")	
<i>Columns</i>		
<i>table dataset</i>	(name="SLWA1", description="null")	

<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table dataset</i>	(name="SLWA2", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	

	<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
	<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
	<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>dataset</i>	<i>table</i>	(name="SLWA3", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")
	<i>StringParameter</i>	channelName (description="Channel name")
	<i>QuantifiableParameter</i>	waveunit (description="null")
<i>Columns</i>		
	<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
	<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
	<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>dataset</i>	<i>table</i>	(name="SLWB1", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")

String-Parameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
Columns	
DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
IntId	numScans (description="Number Of Scans", quantity="1")
DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
table dataset	(name="SLWB2", description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
String-Parameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
Columns	
DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
IntId	numScans (description="Number Of Scans", quantity="1")
DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
table dataset	(name="SLWB3", description="null")

<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table dataset</i>	(name="SLWB4", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	

	<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
	<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
	<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>dataset</i>	<i>table</i>	(name="SLWC1", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")
	<i>StringParameter</i>	channelName (description="Channel name")
	<i>QuantifiableParameter</i>	waveunit (description="null")
<i>Columns</i>		
	<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
	<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
	<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>dataset</i>	<i>table</i>	(name="SLWC2", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")

String-Parameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
Columns	
DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
IntId	numScans (description="Number Of Scans", quantity="1")
DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
table dataset	(name="SLWC3", description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
String-Parameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
Columns	
DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
IntId	numScans (description="Number Of Scans", quantity="1")
DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
table dataset	(name="SLWC4", description="null")

<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table dataset</i>	(name="SLWC5", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	

	<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
	<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
	<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>dataset</i>	<i>table</i>	(name="SLWD1", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")
	<i>StringParameter</i>	channelName (description="Channel name")
	<i>QuantifiableParameter</i>	waveunit (description="null")
<i>Columns</i>		
	<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
	<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
	<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>dataset</i>	<i>table</i>	(name="SLWD2", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")

String-Parameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table dataset</i>	(name="SLWD3", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
String-Parameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table dataset</i>	(name="SLWD4", description="null")

<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table dataset</i>	(name="SLWE1", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	

	<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
	<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
	<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>dataset</i>	<i>table</i>	(name="SLWE2", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")
	<i>StringParameter</i>	channelName (description="Channel name")
	<i>QuantifiableParameter</i>	waveunit (description="null")
<i>Columns</i>		
	<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
	<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
	<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>dataset</i>	<i>table</i>	(name="SLWE3", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")

String-Parameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table dataset</i>	(name="SSWA1", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
String-Parameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table dataset</i>	(name="SSWA2", description="null")

<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
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<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table dataset</i>	(name="SSWA3", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
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	<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
	<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
	<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>dataset</i>	<i>table</i>	(name="SSWA4", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")
	<i>StringParameter</i>	channelName (description="Channel name")
	<i>QuantifiableParameter</i>	waveunit (description="null")
<i>Columns</i>		
	<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
	<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
	<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>dataset</i>	<i>table</i>	(name="SSWB1", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")

String-Parameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table dataset</i>	(name="SSWB2", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
String-Parameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table dataset</i>	(name="SSWB3", description="null")

<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
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<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table dataset</i>	(name="SSWB4", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	

	<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
	<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
	<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>dataset</i>	<i>table</i>	(name="SSWB5", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")
	<i>StringParameter</i>	channelName (description="Channel name")
	<i>QuantifiableParameter</i>	waveunit (description="null")
<i>Columns</i>		
	<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
	<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
	<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>dataset</i>	<i>table</i>	(name="SSWC1", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")

String-Parameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table dataset</i>	(name="SSWC2", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
String-Parameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table dataset</i>	(name="SSWC3", description="null")

<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table dataset</i>	(name="SSWC4", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	

	<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
	<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
	<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>dataset</i>	<i>table</i>	(name="SSWC5", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")
	<i>StringParameter</i>	channelName (description="Channel name")
	<i>QuantifiableParameter</i>	waveunit (description="null")
<i>Columns</i>		
	<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
	<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
	<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>dataset</i>	<i>table</i>	(name="SSWC6", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")

String-Parameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
Columns	
DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
IntId	numScans (description="Number Of Scans", quantity="1")
DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
table dataset	(name="SSWD1", description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
String-Parameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
Columns	
DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
IntId	numScans (description="Number Of Scans", quantity="1")
DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
table dataset	(name="SSWD2", description="null")

<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table dataset</i>	(name="SSWD3", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	

	<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
	<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
	<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>dataset</i>	<i>table</i>	(name="SSWD4", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")
	<i>StringParameter</i>	channelName (description="Channel name")
	<i>QuantifiableParameter</i>	waveunit (description="null")
<i>Columns</i>		
	<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
	<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
	<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>dataset</i>	<i>table</i>	(name="SSWD6", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")

String-Parameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
Columns	
DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
IntId	numScans (description="Number Of Scans", quantity="1")
DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
table dataset	(name="SSWD7", description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
String-Parameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
Columns	
DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
IntId	numScans (description="Number Of Scans", quantity="1")
DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
table dataset	(name="SSWE1", description="null")

<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table dataset</i>	(name="SSWE2", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	

	<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
	<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
	<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>dataset</i>	<i>table</i>	(name="SSWE3", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")
	<i>StringParameter</i>	channelName (description="Channel name")
	<i>QuantifiableParameter</i>	waveunit (description="null")
<i>Columns</i>		
	<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
	<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
	<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>dataset</i>	<i>table</i>	(name="SSWE4", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")

String-Parameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table dataset</i>	(name="SSWE5", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
String-Parameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table dataset</i>	(name="SSWE6", description="null")

<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table dataset</i>	(name="SSWF1", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	

<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table dataset</i>	(name="SSWF2", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")
<i>StringParameter</i>	channelName (description="Channel name")
<i>QuantifiableParameter</i>	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table dataset</i>	(name="SSWF3", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")

String-Parameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
Columns	
DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
IntId	numScans (description="Number Of Scans", quantity="1")
DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
table dataset	(name="SSWF5", description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
String-Parameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
Columns	
DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
IntId	numScans (description="Number Of Scans", quantity="1")
DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
table dataset	(name="SSWG1", description="null")

<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table dataset</i>	(name="SSWG2", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	

<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table</i> <i>dataset</i>	(name="SSWG3", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")
<i>StringParameter</i>	channelName (description="Channel name")
<i>QuantifiableParameter</i>	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>table</i> <i>dataset</i>	(name="SSWG4", description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")

DateParameter	creationDate (description="Creation date of this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	biasMode (description="Bias mode")
LongParameter	jiggId (description="Jiggle ID")
StringParameter	commandedResolution (description="Commanded Spectral Resolution")
StringParameter	author (description="Author of the data")
StringParameter	modelName (description="Model name attached to this product")
StringParameter	formatVersion (description="Version of product format")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")

DoubleParameter	ra (description="Actual Right Ascension of pointing", quantity="deg")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing", quantity="deg")
DoubleParameter	dec (description="Actual Declination of pointing", quantity="deg")
DoubleParameter	decNominal (description="Requested Declination of pointing", quantity="deg")
DoubleParameter	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
StringParameter	type (description="Product Type Identification", quantity="deg")
StringParameter	description (description="Name of this product", quantity="deg")
StringParameter	processResolution (description="The resolution that is to be used or was used to process the data", quantity="deg")
LongParameter	numScans (description="Number of Scans", quantity="deg")
StringParameter	apodName (description="Apodization function applied", quantity="deg")
StringParameter	fileName (description="null", quantity="deg")

	e- ter	
String- Pa- ram- e- ter		dependency (description="Keywords on which product depends", quantity="deg")
String- Pa- ram- e- ter		version (description="null", quantity="deg")
String- Pa- ram- e- ter		obsidsUsed (description="Obsids used to create product", quantity="deg")
String- Pa- ram- e- ter		fileOrigin (description="Origin of the data", quantity="deg")
<i>Columns</i>		
<i>com- pos- ite</i>		(description="null")
<i>Meta- da- ta</i>		
Long- Pa- ram- eter		count (description="Set number")
Long- Pa- ram- eter		scanNumber (description="Scan number")
String- Pa- ram- eter		scanDir (description="Scan direction")
DatePa- ram- eter		scanStartDate (description="Start date of the FTS scan")
DatePa- ram- eter		scanEndDate (description="End date of the FTS scan")
<i>Columns</i>		
<i>ta- ble dataset</i>		(name="SLWA1", description="null")

<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SLWA2", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	

	<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
	<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SLWA3", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")
	<i>String-Parameter</i>	channelName (description="Channel name")
	<i>QuantifiableParameter</i>	waveunit (description="null")
<i>Columns</i>		
	<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
	<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SLWB1", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")

String-Parameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SLWB2", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
String-Parameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SLWB3", description="null")

<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SLWB4", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	

	<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
	<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SLWC1", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")
	<i>String-Parameter</i>	channelName (description="Channel name")
	<i>QuantifiableParameter</i>	waveunit (description="null")
<i>Columns</i>		
	<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
	<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SLWC2", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")

String-Parameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SLWC3", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
String-Parameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SLWC4", description="null")

<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SLWC5", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	

	<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
	<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SLWD1", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")
	<i>StringParameter</i>	channelName (description="Channel name")
	<i>QuantifiableParameter</i>	waveunit (description="null")
<i>Columns</i>		
	<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
	<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SLWD2", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")

String-Parameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
Columns	
DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
IntId	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SLWD3", description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
String-Parameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
Columns	
DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
IntId	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SLWD4", description="null")

<i>Meta-</i>	
<i>data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i>	(name="SLWE1", description="null")
<i>dataset</i>	
<i>Meta-</i>	
<i>data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	

	<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
	<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SLWE2", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")
	<i>StringParameter</i>	channelName (description="Channel name")
	<i>QuantifiableParameter</i>	waveunit (description="null")
<i>Columns</i>		
	<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
	<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SLWE3", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")

String-Parameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
Columns	
DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
IntId	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SSWA1", description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
String-Parameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
Columns	
DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
IntId	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SSWA2", description="null")

<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWA3", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	

	<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
	<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWA4", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")
	<i>StringParameter</i>	channelName (description="Channel name")
	<i>QuantifiableParameter</i>	waveunit (description="null")
<i>Columns</i>		
	<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
	<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWB1", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")

String-Parameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
Columns	
DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
IntId	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SSWB2", description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
String-Parameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
Columns	
DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
IntId	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SSWB3", description="null")

<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWB4", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	

	<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
	<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWB5", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")
	<i>StringParameter</i>	channelName (description="Channel name")
	<i>QuantifiableParameter</i>	waveunit (description="null")
<i>Columns</i>		
	<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
	<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWC1", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")

String-Parameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
Columns	
DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
IntId	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SSWC2", description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
String-Parameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
Columns	
DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
IntId	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SSWC3", description="null")

<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWC4", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	

	<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
	<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWC5", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")
	<i>StringParameter</i>	channelName (description="Channel name")
	<i>QuantifiableParameter</i>	waveunit (description="null")
<i>Columns</i>		
	<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
	<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWC6", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")

String-Parameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWD1", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
String-Parameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWD2", description="null")

<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWD3", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	

	<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
	<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWD4", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")
	<i>StringParameter</i>	channelName (description="Channel name")
	<i>QuantifiableParameter</i>	waveunit (description="null")
<i>Columns</i>		
	<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
	<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWD6", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")

String-Parameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
Columns	
DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
IntId	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SSWD7", description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
String-Parameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
Columns	
DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
IntId	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SSWE1", description="null")

<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table dataset</i>	(name="SSWE2", description="null")
<i>Meta-data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	

	<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
	<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWE3", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")
	<i>StringParameter</i>	channelName (description="Channel name")
	<i>QuantifiableParameter</i>	waveunit (description="null")
<i>Columns</i>		
	<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
	<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWE4", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")

String-Parameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
Columns	
DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
IntId	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SSWE5", description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
String-Parameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
Columns	
DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
IntId	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SSWE6", description="null")

<i>Meta-</i>	<i>data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")	
DoubleParameter	ra (description="Ra pointing for this channel")	
StringParameter	channelName (description="Channel name")	
QuantifiableParameter	waveunit (description="null")	
<i>Columns</i>		
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")	
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")	
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")	
<i>table</i>	(name="SSWF1", description="null")	
<i>dataset</i>		
<i>Meta-</i>	<i>data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")	
DoubleParameter	ra (description="Ra pointing for this channel")	
StringParameter	channelName (description="Channel name")	
QuantifiableParameter	waveunit (description="null")	
<i>Columns</i>		

	<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
	<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWF2", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")
	<i>String-Parameter</i>	channelName (description="Channel name")
	<i>QuantifiableParameter</i>	waveunit (description="null")
<i>Columns</i>		
	<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
	<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWF3", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")

String-Parameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
Columns	
DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
IntId	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SSWF5", description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
String-Parameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
Columns	
DoubleId	wave (description="Unspecified wave-like data", quantity="GHz")
DoubleId	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
DoubleId	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
IntId	numScans (description="Number Of Scans", quantity="1")
table dataset	(name="SSWG1", description="null")

<i>Meta-</i>	
<i>data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>table</i>	(name="SSWG2", description="null")
<i>dataset</i>	
<i>Meta-</i>	
<i>data</i>	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	

	<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
	<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWG3", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")
	<i>StringParameter</i>	channelName (description="Channel name")
	<i>QuantifiableParameter</i>	waveunit (description="null")
<i>Columns</i>		
	<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
	<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
	<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")
<i>dataset</i>	<i>table</i>	(name="SSWG4", description="null")
	<i>Meta-data</i>	
	<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
	<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")

String-Parameter	channelName (description="Channel name")
QuantifiableParameter	waveunit (description="null")
<i>Columns</i>	
<i>DoubleId</i>	wave (description="Unspecified wave-like data", quantity="GHz")
<i>DoubleId</i>	rsrf (description="Relative spectral response function.", quantity="V GHz-1 W-1 m2 Hz sr")
<i>DoubleId</i>	error (description="Error on the relative spectral response functio", quantity="V GHz-1 W-1 m2 Hz sr")
<i>IntId</i>	numScans (description="Number Of Scans", quantity="1")

Chapter 7. Auxiliary Products

7.1. Aux Product Level - Herschel ACMS Telemetry Product

<i>product (type="auxAcmsTM", description="Herschel ACMS Telemetry Product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	telescope (description="Name of telescope")
StringParameter	author (description="Author of the Data")
LongParameter	odNumber (description="Operational day number")
DoubleParameter	Gyr1RateScale (description="GYR 1 scale factor error correction")
DoubleParameter	Gyr2RateScale (description="GYR 2 scale factor error correction")
DoubleParameter	Gyr3RateScale (description="GYR 3 scale factor error correction")
DoubleParameter	Gyr4RateScale (description="GYR 4 scale factor error correction")
DoubleParameter	Gyr123OrientInv11 (description="component 11 of GYR inverted orientation matrix, when GYR-4 is excluded (one matrix for each excluded GYR)")
DoubleParameter	Gyr123OrientInv12 (description="component 12 of GYR inverted orientation matrix, when GYR-4 is excluded")
DoubleParameter	Gyr123OrientInv13 (description="component 13 of GYR inverted orientation matrix, when GYR-4 is excluded")
DoubleParameter	Gyr123OrientInv21 (description="component 21 of GYR inverted orientation matrix, when GYR-4 is excluded")
DoubleParameter	Gyr123OrientInv22 (description="component 22 of GYR inverted orientation matrix, when GYR-4 is excluded")
DoubleParameter	Gyr123OrientInv23 (description="component 23 of GYR inverted orientation matrix, when GYR-4 is excluded")
DoubleParameter	Gyr123OrientInv31 (description="component 31 of GYR inverted orientation matrix, when GYR-4 is excluded")
DoubleParameter	Gyr123OrientInv32 (description="component 32 of GYR inverted orientation matrix, when GYR-4 is excluded")
DoubleParameter	Gyr123OrientInv33 (description="component 33 of GYR inverted orientation matrix, when GYR-4 is excluded")
DoubleParameter	Gyr124OrientInv11 (description="component 11 of GYR inverted orientation matrix, when GYR-3 is excluded")

DoubleParameter	Gyr124OrientInv12 (description="component 12 of GYR inverted orientation matrix, when GYR-3 is excluded")
DoubleParameter	Gyr124OrientInv13 (description="component 13 of GYR inverted orientation matrix, when GYR-3 is excluded")
DoubleParameter	Gyr124OrientInv21 (description="component 21 of GYR inverted orientation matrix, when GYR-3 is excluded")
DoubleParameter	Gyr124OrientInv22 (description="component 22 of GYR inverted orientation matrix, when GYR-3 is excluded")
DoubleParameter	Gyr124OrientInv23 (description="component 23 of GYR inverted orientation matrix, when GYR-3 is excluded")
DoubleParameter	Gyr124OrientInv31 (description="component 31 of GYR inverted orientation matrix, when GYR-3 is excluded")
DoubleParameter	Gyr124OrientInv32 (description="component 32 of GYR inverted orientation matrix, when GYR-3 is excluded")
DoubleParameter	Gyr124OrientInv33 (description="component 23 of GYR inverted orientation matrix, when GYR-3 is excluded")
DoubleParameter	Gyr134OrientInv11 (description="component 11 of GYR inverted orientation matrix, when GYR-2 is excluded")
DoubleParameter	Gyr134OrientInv12 (description="component 12 of GYR inverted orientation matrix, when GYR-2 is excluded")
DoubleParameter	Gyr134OrientInv13 (description="component 13 of GYR inverted orientation matrix, when GYR-2 is excluded")
DoubleParameter	Gyr134OrientInv21 (description="component 21 of GYR inverted orientation matrix, when GYR-2 is excluded")
DoubleParameter	Gyr134OrientInv22 (description="component 22 of GYR inverted orientation matrix, when GYR-2 is excluded")
DoubleParameter	Gyr134OrientInv23 (description="component 23 of GYR inverted orientation matrix, when GYR-2 is excluded")
DoubleParameter	Gyr134OrientInv31 (description="component 31 of GYR inverted orientation matrix, when GYR-2 is excluded")
DoubleParameter	Gyr134OrientInv32 (description="component 32 of GYR inverted orientation matrix, when GYR-2 is excluded")
DoubleParameter	Gyr134OrientInv33 (description="component 33 of GYR inverted orientation matrix, when GYR-2 is excluded")
DoubleParameter	Gyr234OrientInv11 (description="component 11 of GYR inverted orientation matrix, when GYR-1 is excluded")
DoubleParameter	Gyr234OrientInv12 (description="component 12 of GYR inverted orientation matrix, when GYR-1 is excluded")
DoubleParameter	Gyr234OrientInv13 (description="component 13 of GYR inverted orientation matrix, when GYR-1 is excluded")
DoubleParameter	Gyr234OrientInv21 (description="component 21 of GYR inverted orientation matrix, when GYR-1 is excluded")
DoubleParameter	Gyr234OrientInv22 (description="component 22 of GYR inverted orientation matrix, when GYR-1 is excluded")
DoubleParameter	Gyr234OrientInv23 (description="component 23 of GYR inverted orientation matrix, when GYR-1 is excluded")
DoubleParameter	Gyr234OrientInv31 (description="component 31 of GYR inverted orientation matrix, when GYR-1 is excluded")

DoubleParameter	Gyr234OrientInv32 (description="component 32 of GYR inverted orientation matrix, when GYR-1 is excluded")
DoubleParameter	Gyr234OrientInv33 (description="component 33 of GYR inverted orientation matrix, when GYR-1 is excluded")
DoubleParameter	Gyr1RateBias (description="GYR1 rate drift correction")
DoubleParameter	Gyr2RateBias (description="GYR2 rate drift correction")
DoubleParameter	Gyr3RateBias (description="GYR3 rate drift correction")
DoubleParameter	Gyr4RateBias (description="GYR4 rate drift correction")
DoubleParameter	HScmDriftrck210 (description="Star tracker filter difference equation coefficients (one set of 11 elements for each of roll; pitch and yaw)")
DoubleParameter	HScmAttMan_44 (description="Component ij of static gain matrix used for attitude estimate update during manoeuvres")
DoubleParameter	HScmAttMan_43 (description="Component ij of static gain matrix used for attitude estimate update during manoeuvres")
DoubleParameter	HScmDriftrck211 (description="Star tracker filter difference equation coefficients (one set of 11 elements for each of roll; pitch and yaw)")
DoubleParameter	HScmAttPoi_31 (description="Component ij of static gain matrix used for attitude estimate update during pointing")
DoubleParameter	HScmAttPoi_22 (description="Component ij of static gain matrix used for attitude estimate update during pointing")
DoubleParameter	HScmDrifMan_21 (description="Component ij of static gain matrix used for gyro drift estimate update during manoeuvres")
DoubleParameter	HScmAttPoi_21 (description="Component ij of static gain matrix used for attitude estimate update during pointing")
DoubleParameter	HScmDrifMan_22 (description="Component ij of static gain matrix used for gyro drift estimate update during manoeuvres")
DoubleParameter	HScmAttPoi_24 (description="Component ij of static gain matrix used for attitude estimate update during pointing")
DoubleParameter	HScmDrifMan_23 (description="Component ij of static gain matrix used for gyro drift estimate update during manoeuvres")
DoubleParameter	HScmAttPoi_23 (description="Component ij of static gain matrix used for attitude estimate update during pointing")
DoubleParameter	HScmDrifMan_24 (description="Component ij of static gain matrix used for gyro drift estimate update during manoeuvres")
DoubleParameter	HScmAttMan_42 (description="Component ij of static gain matrix used for attitude estimate update during manoeuvres")
DoubleParameter	HScmAttMan_41 (description="Component ij of static gain matrix used for attitude estimate update during manoeuvres")
DoubleParameter	HScmAttMan_13 (description="Component ij of static gain matrix used for attitude estimate update during manoeuvres")
DoubleParameter	HScmAttMan_12 (description="Component ij of static gain matrix used for attitude estimate update during manoeuvres")
DoubleParameter	HScmAttMan_11 (description="Component ij of static gain matrix used for attitude estimate update during manoeuvres")
DoubleParameter	HStrOutputDelay (description="Star Tracker delay time")
DoubleParameter	HScmDriftrck202 (description="Star tracker filter difference equation coefficients (one set of 11 elements for each of roll; pitch and yaw)")

DoubleParameter	HScmDriftrck203 (description="Star tracker filter difference equation coefficients (one set of 11 elements for each of roll; pitch and yaw)")
DoubleParameter	HScmAttMan_14 (description="Component ij of static gain matrix used for attitude estimate update during manoeuvres")
DoubleParameter	HScmDriftrck201 (description="Star tracker filter difference equation coefficients (one set of 11 elements for each of roll; pitch and yaw)")
DoubleParameter	HScmAttPoi_14 (description="Component ij of static gain matrix used for attitude estimate update during pointing")
DoubleParameter	HScmAttPoi_11 (description="Component ij of static gain matrix used for attitude estimate update during pointing")
DoubleParameter	HScmDrifMan_11 (description="Component ij of static gain matrix used for gyro drift estimate update during manoeuvres")
DoubleParameter	HScmAttPoi_13 (description="Component ij of static gain matrix used for attitude estimate update during pointing")
DoubleParameter	HScmDrifMan_12 (description="Component ij of static gain matrix used for gyro drift estimate update during manoeuvres")
DoubleParameter	HScmAttPoi_12 (description="Component ij of static gain matrix used for attitude estimate update during pointing")
DoubleParameter	HScmDrifMan_13 (description="Component ij of static gain matrix used for gyro drift estimate update during manoeuvres")
DoubleParameter	HScmDrifMan_14 (description="Component ij of static gain matrix used for gyro drift estimate update during manoeuvres")
DoubleParameter	HScmDriftrck206 (description="Star tracker filter difference equation coefficients (one set of 11 elements for each of roll; pitch and yaw)")
DoubleParameter	HScmDriftrck207 (description="Star tracker filter difference equation coefficients (one set of 11 elements for each of roll; pitch and yaw)")
DoubleParameter	HScmDrifPoin_11 (description="Component ij of static gain matrix used for gyro drift estimate update during pointing")
DoubleParameter	HScmDriftrck204 (description="Star tracker filter difference equation coefficients (one set of 11 elements for each of roll; pitch and yaw)")
DoubleParameter	HScmDriftrck205 (description="Star tracker filter difference equation coefficients (one set of 11 elements for each of roll; pitch and yaw)")
DoubleParameter	HScmDrifPoin_13 (description="Component ij of static gain matrix used for gyro drift estimate update during pointing")
DoubleParameter	HScmDrifPoin_12 (description="Component ij of static gain matrix used for gyro drift estimate update during pointing")
DoubleParameter	HScmDriftrck208 (description="Star tracker filter difference equation coefficients (one set of 11 elements for each of roll; pitch and yaw)")
DoubleParameter	HScmDrifPoin_14 (description="Component ij of static gain matrix used for gyro drift estimate update during pointing")
DoubleParameter	HScmDriftrck209 (description="Star tracker filter difference equation coefficients (one set of 11 elements for each of roll; pitch and yaw)")
DoubleParameter	HScmAttMan_24 (description="Component ij of static gain matrix used for attitude estimate update during manoeuvres")
DoubleParameter	HScmDriftrck110 (description="Star tracker filter difference equation coefficients (one set of 11 elements for each of roll; pitch and yaw)")
DoubleParameter	HScmAttMan_23 (description="Component ij of static gain matrix used for attitude estimate update during manoeuvres")

DoubleParameter	HScmDriftrck111 (description="Star tracker filter difference equation coefficients (one set of 11 elements for each of roll; pitch and yaw")
DoubleParameter	HScmAttMan_22 (description="Component ij of static gain matrix used for attitude estimate update during manoeuvres")
DoubleParameter	HScmAttMan_21 (description="Component ij of static gain matrix used for attitude estimate update during manoeuvres")
DoubleParameter	HScmDriftrck310 (description="Star tracker filter difference equation coefficients (one set of 11 elements for each of roll; pitch and yaw")
DoubleParameter	HScmDriftrck311 (description="Star tracker filter difference equation coefficients (one set of 11 elements for each of roll; pitch and yaw")
DoubleParameter	HScmAttPoi_44 (description="Component ij of static gain matrix used for attitude estimate update during pointing")
DoubleParameter	HScmAttPoi_43 (description="Component ij of static gain matrix used for attitude estimate update during pointing")
DoubleParameter	HScmDrifPoin_22 (description="Component ij of static gain matrix used for gyro drift estimate update during pointing")
DoubleParameter	HScmDrifPoin_21 (description="Component ij of static gain matrix used for gyro drift estimate update during pointing")
DoubleParameter	HScmDrifPoin_24 (description="Component ij of static gain matrix used for gyro drift estimate update during pointing")
DoubleParameter	HScmDrifPoin_23 (description="Component ij of static gain matrix used for gyro drift estimate update during pointing")
DoubleParameter	HGyrMeasDelay (description="GYR Measurement delay")
DoubleParameter	HScmAttMan_34 (description="Component ij of static gain matrix used for attitude estimate update during manoeuvres")
DoubleParameter	HScmAttMan_33 (description="Component ij of static gain matrix used for attitude estimate update during manoeuvres")
DoubleParameter	HScmAttMan_32 (description="Component ij of static gain matrix used for attitude estimate update during manoeuvres")
DoubleParameter	HScmDriftrck103 (description="Star tracker filter difference equation coefficients (one set of 11 elements for each of roll; pitch and yaw")
DoubleParameter	HScmDriftrck301 (description="Star tracker filter difference equation coefficients (one set of 11 elements for each of roll; pitch and yaw")
DoubleParameter	HScmDriftrck104 (description="Star tracker filter difference equation coefficients (one set of 11 elements for each of roll; pitch and yaw")
DoubleParameter	HScmDriftrck302 (description="Star tracker filter difference equation coefficients (one set of 11 elements for each of roll; pitch and yaw")
DoubleParameter	HScmDriftrck101 (description="Star tracker filter difference equation coefficients (one set of 11 elements for each of roll; pitch and yaw")
DoubleParameter	HScmDriftrck102 (description="Star tracker filter difference equation coefficients (one set of 11 elements for each of roll; pitch and yaw")
DoubleParameter	HScmAttPoi_42 (description="Component ij of static gain matrix used for attitude estimate update during pointing")
DoubleParameter	HScmAttPoi_41 (description="Component ij of static gain matrix used for attitude estimate update during pointing")
DoubleParameter	HScmDrifMan_31 (description="Component ij of static gain matrix used for gyro drift estimate update during manoeuvres")

DoubleParameter	HScmAttPoi_33 (description="Component ij of static gain matrix used for attitude estimate update during pointing")
DoubleParameter	HScmDrifMan_32 (description="Component ij of static gain matrix used for gyro drift estimate update during manoeuvres")
DoubleParameter	HScmAttPoi_32 (description="Component ij of static gain matrix used for attitude estimate update during pointing")
DoubleParameter	HScmDrifMan_33 (description="Component ij of static gain matrix used for gyro drift estimate update during manoeuvres")
DoubleParameter	HScmDrifMan_34 (description="Component ij of static gain matrix used for gyro drift estimate update during manoeuvres")
DoubleParameter	HScmAttPoi_34 (description="Component ij of static gain matrix used for attitude estimate update during pointing")
DoubleParameter	HScmDrifPoin_31 (description="Component ij of static gain matrix used for gyro drift estimate update during pointing")
DoubleParameter	HScmDriftrck107 (description="Star tracker filter difference equation coefficients (one set of 11 elements for each of roll; pitch and yaw)")
DoubleParameter	HScmDriftrck305 (description="Star tracker filter difference equation coefficients (one set of 11 elements for each of roll; pitch and yaw)")
DoubleParameter	HScmDriftrck108 (description="Star tracker filter difference equation coefficients (one set of 11 elements for each of roll; pitch and yaw)")
DoubleParameter	HScmDriftrck306 (description="Star tracker filter difference equation coefficients (one set of 11 elements for each of roll; pitch and yaw)")
DoubleParameter	HScmDrifPoin_33 (description="Component ij of static gain matrix used for gyro drift estimate update during pointing")
DoubleParameter	HScmDriftrck105 (description="Star tracker filter difference equation coefficients (one set of 11 elements for each of roll; pitch and yaw)")
DoubleParameter	HScmDriftrck303 (description="Star tracker filter difference equation coefficients (one set of 11 elements for each of roll; pitch and yaw)")
DoubleParameter	HScmDrifPoin_32 (description="Component ij of static gain matrix used for gyro drift estimate update during pointing")
DoubleParameter	HScmDriftrck106 (description="Star tracker filter difference equation coefficients (one set of 11 elements for each of roll; pitch and yaw)")
DoubleParameter	HScmDriftrck304 (description="Star tracker filter difference equation coefficients (one set of 11 elements for each of roll; pitch and yaw)")
DoubleParameter	HScmAttMan_31 (description="Component ij of static gain matrix used for attitude estimate update during manoeuvres")
DoubleParameter	HScmDriftrck309 (description="Star tracker filter difference equation coefficients (one set of 11 elements for each of roll; pitch and yaw)")
DoubleParameter	HScmDrifPoin_34 (description="Component ij of static gain matrix used for gyro drift estimate update during pointing")
DoubleParameter	HScmDriftrck109 (description="Star tracker filter difference equation coefficients (one set of 11 elements for each of roll; pitch and yaw)")
DoubleParameter	HScmDriftrck307 (description="Star tracker filter difference equation coefficients (one set of 11 elements for each of roll; pitch and yaw)")
DoubleParameter	HScmDriftrck308 (description="Star tracker filter difference equation coefficients (one set of 11 elements for each of roll; pitch and yaw)")
<i>Columns</i>	
<i>table dataset</i>	(name="AcmsEssentialTM", description="null")

<i>Metadata</i>		
DateParameter	startDate (description="null")	
DateParameter	endDate (description="null")	
<i>Columns</i>		
<i>LongId</i>	recordTime (description="Record time key", quantity="TAI")	
<i>LongId</i>	acmsState (description="ACMS state", quantity="none")	
<i>LongId</i>	acmsSubState (description="ACMS substate", quantity="none")	
<i>LongId</i>	acmsMode (description="ACMS Mode", quantity="none")	
<i>LongId</i>	strmStatusWord (description="Main STR Mode status word", quantity="none")	

7.2. Aux Product Level - Herschel Events Log Product

<i>product (type="auxEvLog", description="Herschel Events Log Product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	telescope (description="Name of telescope")
StringParameter	author (description="Author of the Data")
LongParameter	odNumber (description="Operational day number")
<i>Columns</i>	
<i>table dataset (name="16_2", description="null")</i>	
<i>Metadata</i>	
DateParameter	startDate (description="First product time key in dataset")
DateParameter	endDate (description="Last product key within dataset")
LongParameter	apid (description="Packet APID")
LongParameter	packetType (description="Packet type (set to 5 for PUS event reporting service)")
LongParameter	virtualChannel (description="Virtual Channel")
<i>Columns</i>	
<i>LongId</i>	obt (description="TAI Time key index", quantity="TAI")
<i>ShortId</i>	eventId (description="Identifier for the event", quantity="none")
<i>ShortId</i>	packetSubType (description="Identifier for the event", quantity="none")

<i>ShortId</i>	sid (description="Packet structure ID", quantity="none")
<i>StringId</i>	evtDesc (description="Event description as in APID table in MIB", quantity="none")
<i>IntId</i>	evtSeqCount (description="Event sequence counter", quantity="none")
<i>StringId</i>	evtParamsA (description="Fixed length parameters field with complementary information on event", quantity="none")
<i>StringId</i>	evtParamsB (description="Variable length parameters field with complementary information on event", quantity="none")

7.3. Aux Product Level - Herschel Horizons Ephemeris Product

<i>product (type="auxHorizons", description="Herschel Horizons Ephemeris Product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	telescope (description="Name of telescope")
StringParameter	author (description="Author of the Data")
<i>Columns</i>	
<i>table dataset</i>	(name="1000012", description="1000012")
<i>Metadata</i>	
DoubleParameter	centerCylindricLong (description="Center longitude", quantity="deg")
DoubleParameter	centerCylindricXY (description="Center distance from Z axis", quantity="km")
DoubleParameter	centerCylindricZ (description="Center height above XY plane", quantity="km")
DoubleParameter	centerGeodeticAlt (description="Center geodetic altitude", quantity="km")
DoubleParameter	centerGeodeticLat (description="Center geodetic latitude", quantity="deg")
DoubleParameter	centerGeodeticLong (description="Center geodetic longitude", quantity="deg")
StringParameter	centerRadii (description="Center radii, usually set as "undefined", quantity="deg")
StringParameter	centerSiteName (description="center-site name", quantity="deg")
StringParameter	centerBodyName (description="Name of the center body", quantity="deg")

DoubleParameter	cometA1 (description="Radial non-gravitational acceleration", quantity="deg")
DoubleParameter	cometA2 (description="Transverse non-gravitational acceleration", quantity="deg")
DoubleParameter	cometA3 (description="Normal non-gravitational acceleration", quantity="deg")
DoubleParameter	cometK1 (description="Total magnitude scaling factor", quantity="deg")
DoubleParameter	cometM1 (description="Total absolute magnitude", quantity="deg")
DoubleParameter	cometM2 (description="Nuclear absolute magnitude", quantity="deg")
StringParameter	coordinateSystem (description="Coordinate system", quantity="deg")
DateParameter	elementsDate (description="Epoch Julian Data (Coordinate Time)", quantity="deg")
DoubleParameter	elementEC (description="Eccentricity", quantity="deg")
DoubleParameter	elementIN (description="Inclination w.r.t xy plane", quantity="deg")
DoubleParameter	elementOM (description="Longitude of Ascending Node", quantity="deg")
DoubleParameter	elementQR (description="Periapsis distance", quantity="microa")
DoubleParameter	elementTP (description="Time of periapsis", quantity="microa")
DoubleParameter	elementW (description="Argument of Perifocus", quantity="deg")
StringParameter	outputType (description="Output format type", quantity="deg")
StringParameter	outputUnits (description="Output units", quantity="deg")
StringParameter	referenceFrame (description="Reference frame", quantity="deg")
StringParameter	ssoNameSource (description="Source of the name of the SSO", quantity="deg")
StringParameter	ssoName (description="Name of the SSO", quantity="deg")
DoubleParameter	ssoRadius (description="Object radius", quantity="km")
<i>Columns</i>	
<i>Long1d</i>	recordTime (description="TAI Time key index", quantity="TAI")
<i>Double2d</i>	ssoPosition (description="Cartesian components of the SSO orbital position in the given reference system", quantity="km")
<i>Double2d</i>	ssoVelocity (description="Cartesian components of the SSO orbital velocity in the given reference system", quantity="km s-1")

7.4. Aux Product Level - Herschel House-keeping Product

<i>product (type="auxHK", description="Herschel Housekeeping Product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")

StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	telescope (description="Name of telescope")
StringParameter	author (description="Author of the Data")
LongParameter	odNumber (description="Operational day number")
Columns	
table dataset	(name="MonitorCCUA", description="null")
Metadata	
DateParameter	startDate (description="First time key in dataset")
DateParameter	endDate (description="Last time key within dataset")
StringParameter	rawPacketSpid (description="Raw Packet SPID")
Columns	
LongId	recordTime (description="Record time key", quantity="TAI")
DoubleId	m1T331 (description="M1 temp, T331 PT1000 sensor", quantity="K")
DoubleId	m1T333 (description="M1 temp, T333 PT1000 sensor", quantity="K")
DoubleId	m1T335 (description="M1 temp, T335 PT1000 sensor", quantity="K")
DoubleId	m1T337 (description="M1 temp, T337 PT1000 sensor", quantity="K")
DoubleId	m2T339 (description="M2 temp, T339 PT1000 sensor", quantity="K")
DoubleId	m2T341 (description="M2 temp, T341 PT1000 sensor", quantity="K")
DoubleId	pacst242 (description="PACS photometer L1 cooling strap temp, T242_1/_2 C100 sensor", quantity="K")
DoubleId	hifiT244 (description="HIFI photometer L1 cooling strap temp, T244_1/_2 C100 sensor", quantity="K")
DoubleId	pacst221 (description="PACS red detector L0 cooling strap temp, T221 C100 sensor", quantity="K")
DoubleId	pacst223 (description="PACS sorption cooling pump L0 cooling strap temp, T223_1/_2 C100 sensor", quantity="K")
DoubleId	spireT227 (description="SPIRE sorption cooler evaporator L0 cooling strap temp, T227 C100 sensor", quantity="K")
DoubleId	hifiT228 (description="HIFI L0 cooling strap temp, T228 C100 sensor", quantity="K")
DoubleId	obtT258 (description="Optical bench temp, C100 sensor", quantity="K")
DoubleId	tankT106 (description="Tank temp, C100 sensor", quantity="K")
DoubleId	shield1T424 (description="Thermal Shield 1 Top temp, T424 PT1000 sensor", quantity="K")
DoubleId	shield2T442 (description="Thermal Shield 2 Middle temp, T442 PT1000 sensor", quantity="K")
DoubleId	shield3T464 (description="Thermal Shield 3 Top temp, T464 PT1000 sensor", quantity="K")
DoubleId	shield1T421 (description="Thermal Shield 1 bottom temp, T421 PT1000 sensor", quantity="K")

<i>DoubleId</i>	shield3T461 (description="Thermal Shield 3 bottom temp, T461 PT1000 sensor", quantity="K")
<i>DoubleId</i>	hifiwgT935 (description="HIFI wave guide - cvv outside temp, T935 PT1000 sensor", quantity="K")
<i>DoubleId</i>	svmpYT321 (description="SVM shield +Y temp, T321 PT1000 sensor", quantity="K")
<i>DoubleId</i>	svmmYmZT323 (description="SVM shield -Y -Z temp, T323 PT1000 sensor", quantity="K")

7.5. Aux Product Level - Herschel Missing TM Product

<i>product</i> (type="auxMissTM", description="Herschel Missing TM Product")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	telescope (description="Name of telescope")
StringParameter	author (description="Author of the Data")
LongParameter	odNumber (description="Operational day number")
<i>Columns</i>	
<i>table dataset</i> (name="MissingTmTable", description="MissingTmTable")	
<i>Metadata</i>	
<i>Columns</i>	
<i>IntId</i>	apid (description="Missing packet's APID", quantity="none")
<i>LongId</i>	lastTime (description="Last valid packet time (OBT, TAI)", quantity="TAI")
<i>LongId</i>	nextTime (description="Next valid packet time - set to 0 if none available (OBT, TAI)", quantity="TAI")
<i>ShortId</i>	lastSsc (description="Last valid source sequence counter", quantity="none")
<i>ShortId</i>	nextSsc (description="Next valid source sequence counter (-1 if none available)", quantity="none")

7.6. Aux Product Level - Herschel Mission Timeline Product

<i>product</i> (type="auxMtls", description="Herschel Mission Timeline Product")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	telescope (description="Name of telescope")
StringParameter	author (description="Author of the Data")
LongParameter	odNumber (description="Operational day number")
StringParameter	psfVersion (description="PSF Version")
StringParameter	posVersion (description="POS Version")
StringParameter	eposVersion (description="EPOS Version")
<i>Columns</i>	
<i>table dataset</i>	(name="RequestData", description="null")
<i>Metadata</i>	
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
<i>Columns</i>	
<i>LongId</i>	pTime (description="Pointing time of manoeuvre", quantity="TAI")
<i>StringId</i>	RequestId (description="Request ID as given in EPOS", quantity="none")
<i>StringId</i>	RequestType (description="Request type", quantity="none")
<i>IntId</i>	numPoints (description="Number of points per raster line", quantity="none")
<i>IntId</i>	numLines (description="Number of raster or scan lines", quantity="none")
<i>DoubleId</i>	patternD1 (description="Spacing of points along raster or scan line", quantity="arcsec")
<i>DoubleId</i>	patternD2 (description="Spacing of adjacent raster or scan lines", quantity="arcsec")
<i>DoubleId</i>	patternTilt (description="Tilt of the raster or scan map pattern", quantity="deg")
<i>BoolId</i>	isOffUsed (description="True if OFF position used", quantity="none")
<i>DoubleId</i>	scanRate (description="Scan rate", quantity="arcsec s-1")

<i>DoubleId</i>	initialRa (description="Target initial RA in ACA frame", quantity="deg")
<i>DoubleId</i>	initialDec (description="Target initial declination in ACA frame", quantity="deg")
<i>DoubleId</i>	initialPa (description="Target initial Position Angle in ACA frame", quantity="deg")
<i>IntId</i>	manoeuvreDuration (description="Manoeuvre duration", quantity="s")
<i>IntId</i>	dweltTime (description="Pointing dwell time", quantity="s")
<i>IntId</i>	SlewTimeD1 (description="Slew duration between points (steps)", quantity="s")
<i>IntId</i>	SlewTimeD2 (description="Slew duration between lines (raster or scan map)", quantity="s")
<i>IntId</i>	SlewTimeFirst (description="Slew duration to first scan line", quantity="s")

7.7. Aux Product Level - Herschel Out Of Limits Product

<i>product</i> (type="auxOol", description="Herschel Out Of Limits Product")	
<i>Meta-data</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	telescope (description="Name of telescope")
StringParameter	author (description="Author of the Data")
LongParameter	odNumber (description="Operational day number")

<i>Columns</i>	
<i>table dataset</i>	(name="IntegerLimitTable", description="null")
<i>Metadata</i>	
<i>DateParameter</i>	startDate (description="First product time key in dataset")
<i>DateParameter</i>	endDate (description="Last product key within dataset")
<i>Columns</i>	
<i>LongId</i>	oolTime (description="Time when the parameter was found to be OOL (assumed TAI", quantity="TAI")
<i>LongId</i>	valTime (description="Time of the parameter value (assumed TAI", quantity="TAI")
<i>StringId</i>	parName (description="Parameter name as in the MIB", quantity="none")
<i>StringId</i>	parDesc (description="Parameter description as in the MIB", quantity="none")
<i>IntId</i>	oolCheckPos (description="OOL check position", quantity="none")
<i>ByteId</i>	paramState (description="Parameter state in BEHV subsystem", quantity="none")
<i>ByteId</i>	oolCheckStatus (description="OOL condition status", quantity="none")
<i>IntId</i>	numViolations (description="Number of times OOL check has been violated", quantity="none")
<i>BoolId</i>	signedParameterFlag (description="Signed parameter flag", quantity="none")
<i>LongId</i>	parVal (description="Parameter value", quantity="none")
<i>LongId</i>	parLowLimit (description="Parameter low limit", quantity="none")
<i>LongId</i>	parHighLimit (description="Parameter high limit", quantity="none")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="RealLimitTable", description="null")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="StringLimitTable", description="null")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="IntegerStatusConTable", description="null")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="RealStatusConTable", description="null")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="StringStatusConTable", description="null")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="IntegerStateTable", description="null")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="RealStateTable", description="null")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="StringStateTable", description="null")
	()

<i>table dataset</i>	Dataset similar to the one above with (name="IntegerDeltaTable", description="null")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="RealDeltaTable", description="null")
	()
<i>table dataset</i>	Dataset similar to the one above with (name="StringDeltaTable", description="null")

7.8. Aux Product Level - Herschel Predicted Orbit Ephemeris Product

<i>product (type="auxOrbitp", description="Herschel Predicted Orbit Ephemeris Product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	telescope (description="Name of telescope")
StringParameter	author (description="Author of the Data")
DoubleParameter	equinox (description="Equinox of reference system")
StringParameter	centerName (description="Origin of reference frame")
StringParameter	refFrame (description="Name of reference frame for ephemeris data")
StringParameter	timeSystem (description="Time system for ephemeris data and metadata")
StringParameter	sourceFile (description="Name of the file from where data was extracted")
<i>Columns</i>	
<i>table dataset</i>	(name="OrbitProductTable1", description="null")
<i>Metadata</i>	
DateParameter	startDate (description="First product time key in dataset")
DateParameter	endDate (description="Last product key within dataset")
StringParameter	interpMethod (description="null")
StringParameter	interpDegree (description="null")
<i>Columns</i>	
<i>Long1d</i>	recordTime (description="Time key index (TAI)", quantity="TAI")
<i>Long1d</i>	onBoardTime (description="OnboardTime (TAI ?)", quantity="TAI")
<i>Double2d</i>	orbitPos (description="Cartesian components of S/C position", quantity="km")

				<i>Double2d</i> orbitVel (description="Cartesian components of S/C velocity", quantity="km s-1")

7.9. Aux Product Level - Herschel Orbit Events Product

<i>product (type="auxOrbEv", description="Herschel Orbit Events Product")</i>				
<i>Metadata</i>				
StringParameter		type (description="Product Type Identification")		
StringParameter		creator (description="Generator of this product")		
DateParameter		creationDate (description="Creation date of this product")		
StringParameter		description (description="Name of this product")		
StringParameter		instrument (description="Instrument attached to this product")		
StringParameter		modelName (description="Model name attached to this product")		
DateParameter		startDate (description="Start date of this product")		
DateParameter		endDate (description="End date of this product")		
StringParameter		formatVersion (description="Version of product format")		
StringParameter		telescope (description="Name of telescope")		
StringParameter		author (description="Author of the Data")		
<i>Columns</i>				
<i>table dataset (name="OrbitEventsTable", description="null")</i>				
<i>Metadata</i>				
<i>Columns</i>				
	<i>StringId</i>	orbitEvtId (description="Event Type Identification", quantity="none")		
	<i>LongId</i>	orbitEvtCount (description="Event Count", quantity="none")		
	<i>StringId</i>	predictReconstFlag (description="Flag to indicate predicted (P) vs. Reconstituted (R) event", quantity="none")		
	<i>LongId</i>	orbitEvtTime (description="Orbit Event start time (TAI)", quantity="TAI")		
	<i>LongId</i>	orbitEvtDuration (description="Duration of Event in s. (If the event marks the end of a previous event, duration = 0)", quantity="s")		
	<i>StringId</i>	orbitEvtDesc (description="Event description", quantity="none")		

7.10. Aux Product Level - Herschel Pointing Product

<i>product (type="HPP", description="Herschel Pointing Product")</i>				
<i>Metadata</i>				
StringParameter		type (description="Product Type Identification")		
StringParameter		creator (description="Generator of this product")		
DateParameter		creationDate (description="Creation date of this product")		

StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	telescope (description="Name of telescope")
StringParameter	author (description="Author of the Data")
LongParameter	odNumber (description="Operational day number")
StringParameter	version (description="Version of the Pointing Product")
StringParameter	versionNotes (description="Version notes of the Pointing Product")
StringParameter	raDecSys (description="Coordinate reference frame for the RA, Dec")
DoubleParameter	equinox (description="Equinox of reference system")
StringParameter	siamId (description="Reference to the applicable SIAM")
LongParameter	obsid (description="Observation identifier")
BooleanParameter	gyroAttSuspicious (description="Suspicious attitude")
DoubleParameter	gyroAttQuality (description="Gyro Attitude Quality")
DoubleParameter	gyroAttCoverage (description="Gyro Attitude Coverage")
DoubleParameter	probBad (description="Probability Bad")
DoubleParameter	probThreshold (description="Probability Threshold")
DoubleParameter	coverageThresh (description="Coverage Threshold")
<i>Columns</i>	
<i>table dataset</i>	(name="1661063755788712", description="Pointing table")
<i>Metadata</i>	
LongParameter	obsid (description="Observation ID")
LongParameter	bbid (description="Building Block ID")
LongParameter	rasterLineNum (description="Raster line number")
LongParameter	rasterColumnNum (description="Raster Column number")
LongParameter	scanLineNum (description="Scan line number")
LongParameter	customMapPointNum (description="Custom map pointing number")
LongParameter	crossScanNum (description="Cross scan number count")
LongParameter	nodCycleNum (description="Switching/nodding cycle number")
BooleanParameter	abPosId (description="A/B position identifier")
StringParameter	pointModeId (description="Point mode ID")
StringParameter	apertureId (description="Instrument aperture")
BooleanParameter	serendipityFlag (description="SPIRE serendipity mode flag")
StringParameter	acmsMode (description="ACMS mode")
LongParameter	strInUse (description="The star tracker in use, Either 1 or 2 (for STR-1 or STR-2)")
LongParameter	startDate (description="First product time key")
LongParameter	endDate (description="Last product time key")
<i>Columns</i>	

<i>Long1d</i>	obt (description="On board time", quantity="none")
<i>Double2d</i>	commandQuat (description="Commanded Pointing quaternion", quantity="none")
<i>Double2d</i>	filterQuat (description="Filtered attitude quaternion", quantity="none")
<i>Double2d</i>	gyroPropQuat (description="Gyro-propagated attitude quaternion", quantity="none")
<i>Double1d</i>	strQuality (description="STR quality index (arcsec)", quantity="none")
<i>Double1d</i>	gyroQuality (description="Gyro-propagated quality index (arcsec)", quantity="none")
<i>Double2d</i>	angVelocity (description="S/C angular velocity (arcsec/sec)", quantity="none")
<i>Double2d</i>	angVelocityError (description="S/C angular velocity error (arcsec/sec)", quantity="none")
<i>Bool1d</i>	isConstantVelocity (description="Constant velocity flag", quantity="none")
<i>Bool1d</i>	isStrInterlacing (description="STR interlacing flag. 1 if active, 0 otherwise", quantity="none")
<i>Int1d</i>	qualityFlag (description="Quality flag", quantity="none")
<i>Bool1d</i>	isSlew (description="Slew flag", quantity="none")
<i>Bool1d</i>	isOutOfField (description="Out of field flag", quantity="none")
<i>Bool1d</i>	isOffPosition (description="Off-position flag", quantity="none")
<i>Bool1d</i>	isOnTarget (description="On-target flag", quantity="none")
<i>Double2d</i>	uncorrFilterQuat (description="Uncorrected filtered attitude quaternion", quantity="none")
<i>Double1d</i>	solarAspectAngle (description="Solar Aspect Angle", quantity="none")
<i>Double2d</i>	simpleCorrFilterQuat (description="Filtered attitude quaternion", quantity="none")
<i>Double1d</i>	gyroAttProbX (description="null", quantity="none")
<i>Double1d</i>	gyroAttProbY (description="null", quantity="none")
<i>Double1d</i>	gyroAttProbZ (description="null", quantity="none")
<i>Double1d</i>	gyroAttSigmaX (description="null", quantity="none")
<i>Double1d</i>	gyroAttSigmaY (description="null", quantity="none")
<i>Double1d</i>	gyroAttSigmaZ (description="null", quantity="none")
<i>Short1d</i>	filterQuatFlag (description="null", quantity="none")

7.11. Aux Product Level - Unknown

<i>product</i> (type="SIAM", description="Unknown")	
<i>Metadata</i>	
StringParameter	type (description="Product Type")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")

StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	telescope (description="Herschel")
StringParameter	author (description="author of data (site)")
StringParameter	fileName (description="Filename when exported to FITS")
StringParameter	activeStrId (description="Identification of the active STR")
LongParameter	nPacsSaa (description="Number of PACS reference SAAs (0 means not used)")
LongParameter	nSpireSaa (description="Number of Spire reference SAAs (0 means not used)")
LongParameter	nHifiSaa (description="Number of HiFi reference SAAs (0 means not used)")
<i>Columns</i>	
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
StringParameter	instrument (description="null")
StringParameter	apertureId (description="null")
DateParameter	validityStart (description="null")
DoubleParameter	SAA (description="null")
<i>Columns</i>	
<i>Double2d</i>	(description="null", quantity="none")

7.12. Aux Product Level - Herschel Simple Calibration Table Product containing the calibration uplink tables used to configure this instrument for the given mission configuration

product (type="auxSimpleCal", description="Herschel Simple Calibration Table Product containing the calibration uplink tables used to configure this instrument for the given mission configuration")

<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")

StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	telescope (description="Name of telescope")
StringParameter	author (description="Author of the Data")
StringParameter	missionConfig (description="Mission configuration")
<i>Columns</i>	
<i>table dataset</i>	(name="CONF_PHOT_params", description="null")
<i>Metadata</i>	
StringParameter	calTableComment0 (description="null")
StringParameter	calTableComment1 (description="null")
StringParameter	calTableComment2 (description="null")
StringParameter	calTableComment3 (description="null")
StringParameter	calTableComment4 (description="null")
StringParameter	calTableComment5 (description="null")
StringParameter	calTableComment6 (description="null")
StringParameter	calTableComment7 (description="null")
StringParameter	calTableComment8 (description="null")
StringParameter	calTableComment9 (description="null")
StringParameter	calTableComment10 (description="null")
StringParameter	calTableComment11 (description="null")
StringParameter	calTableComment12 (description="null")
StringParameter	calTableComment13 (description="null")
StringParameter	calTableComment14 (description="null")
StringParameter	calTableComment15 (description="null")
StringParameter	calTableComment16 (description="null")
StringParameter	calTableComment17 (description="null")
StringParameter	calTableComment18 (description="null")
StringParameter	calTableComment19 (description="null")
StringParameter	calTableComment20 (description="null")
StringParameter	calTableComment21 (description="null")
StringParameter	calTableComment22 (description="null")
StringParameter	calTableComment23 (description="null")
StringParameter	calTableComment24 (description="null")
StringParameter	calTableComment25 (description="null")
StringParameter	calTableComment26 (description="null")
StringParameter	calTableComment27 (description="null")
<i>Columns</i>	
<i>StringId</i>	parameter (description="null", quantity="none")
<i>IntId</i>	Prime (description="null", quantity="none")
<i>IntId</i>	Parallel (description="null", quantity="none")

	<i>Int1d</i>	BrightPacs (description="null", quantity="none")
	<i>Int1d</i>	ParBright (description="null", quantity="none")

7.13. Aux Product Level - Herschel Calibrated SREM Product

<i>product</i> (type="auxCalSREM", description="Herschel Calibrated SREM Product")		
<i>Metadata</i>		
StringParameter	type	(description="Product Type Identification")
StringParameter	creator	(description="Generator of this product")
DateParameter	creationDate	(description="Creation date of this product")
StringParameter	description	(description="Name of this product")
StringParameter	instrument	(description="Instrument attached to this product")
StringParameter	modelName	(description="Model name attached to this product")
DateParameter	startDate	(description="Start date of this product")
DateParameter	endDate	(description="End date of this product")
StringParameter	formatVersion	(description="Version of product format")
StringParameter	telescope	(description="Name of telescope")
StringParameter	author	(description="Author of the Data")
LongParameter	odNumber	(description="Operational day number")
<i>Columns</i>		
<i>table dataset</i> (name="calAccumData", description="null")		
<i>Metadata</i>		
DateParameter	startDate	(description="First product time key in dataset")
DateParameter	endDate	(description="Last product key within dataset")
DoubleParameter	protonE1	(description="Proton energy E1, MeV")
DoubleParameter	protonE2	(description="Proton energy E2, MeV")
DoubleParameter	protonE3	(description="Proton energy E3, MeV")
DoubleParameter	protonE4	(description="Proton energy E4, MeV")
DoubleParameter	protonE5	(description="Proton energy E5, MeV")
DoubleParameter	electronE1	(description="Electron energy E1, MeV")
DoubleParameter	electronE2	(description="Electron energy E2, MeV")
DoubleParameter	electronE3	(description="Electron energy E3, MeV")
DoubleParameter	electronE4	(description="Electron energy E4, MeV")
<i>Columns</i>		
<i>Long1d</i>	accumEpoch	(description="Accumulation epoch (TAI", quantity="TAI")
<i>Double1d</i>	countRateD1	(description="Count rate in detector D1", quantity="Hz")
<i>Double1d</i>	countRateD2	(description="Count rate in detector D2", quantity="Hz")
<i>Double1d</i>	countRateD3	(description="Count rate in detector D3", quantity="Hz")

<i>Double2d</i>	protonDiffFlux (description="Omnidirectional differential proton flux", quantity="MeV-1 cm-2 s-1")
<i>Double2d</i>	protonDiffFluxErr (description="Omnidirectional differential proton flux error", quantity="MeV-1 cm-2 s-1")
<i>Double2d</i>	electronDiffFlux (description="Omnidirectional differential electron flux", quantity="MeV-1 cm-2 s-1")
<i>Double2d</i>	electronDiffFluxErr (description="Omnidirectional differential electron flux error", quantity="MeV-1 cm-2 s-1")
<i>Double1d</i>	anisotropyIndex (description="Anisotropy index", quantity="none")
<i>Double1d</i>	d12Temp (description="D1/D2 temperature", quantity="K")
<i>Double1d</i>	d3Temp (description="D3 temperature", quantity="K")
<i>Double2d</i>	orbitPos (description="Spacecraft orbital position (EME2000 frame)", quantity="km")
<i>Double1d</i>	ra (description="Spacecraft pointing RA", quantity="deg")
<i>Double1d</i>	dec (description="Spacecraft pointing Dec", quantity="deg")
<i>Double1d</i>	posAngle (description="Spacecraft pointing Position angle", quantity="deg")
<i>Double1d</i>	countRateC2 (description="Count rate in channel C2 (coincidence proton channel C2,50-280MeV)", quantity="Hz")
<i>Int1d</i>	ProtonFitQual (description="Proton flux fit quality", quantity="none")
<i>Int1d</i>	ElectronFitQual (description="Electron flux fit quality", quantity="none")

7.14. Aux Product Level - Herschel Calibrated SREM Product

<i>product (type="auxRawSREM", description="Herschel Calibrated SREM Product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	telescope (description="Name of telescope")
StringParameter	author (description="Author of the Data")
LongParameter	odNumber (description="Operational day number")
<i>Columns</i>	
<i>table dataset</i>	(name="rawAccumData", description="null")
<i>Metadata</i>	

DateParameter	startDate (description="First product time key in dataset")
DateParameter	endDate (description="Last product key within dataset")
Columns	
LongId	startAccumTime (description="Start accumulation time (assumed TAI", quantity="TAI")
LongId	endAccumTime (description="End accumulation time (assumed TAI", quantity="TAI")
LongId	tc1Raw (description="Total counts in D1 (protons tc1 raw)", quantity="none")
LongId	s12Raw (description="Proton alarm (s12 raw)", quantity="none")
LongId	s13Raw (description="Single protons (s13 raw)", quantity="none")
LongId	s14Raw (description="Single protons (s14 raw)", quantity="none")
LongId	s15Raw (description="Single protons (s15 raw)", quantity="none")
LongId	tc2Raw (description="Total counts in D2 (protons tc2 raw)", quantity="none")
LongId	s25Raw (description="Heavy ions (s25 raw)", quantity="none")
LongId	c1Raw (description="Coincidence, protons (c1 raw)", quantity="none")
LongId	c2Raw (description="Coincidence, protons (c2 raw)", quantity="none")
LongId	c3Raw (description="Coincidence, protons (c3 raw)", quantity="none")
LongId	c4Raw (description="Coincidence, protons (c4 raw)", quantity="none")
LongId	tc3Raw (description="Total counts in D3 (electrons)", quantity="none")
LongId	s32Raw (description="Electron alarm (s32 raw)", quantity="none")
LongId	s33Raw (description="Proton count (s33 raw)", quantity="none")
LongId	s34Raw (description="Proton count (s34 raw)", quantity="none")
LongId	pl1 (description="Dead time correction count D1", quantity="none")
LongId	pl2 (description="Dead time correction count D2", quantity="none")
LongId	pl3 (description="Dead time correction count D3", quantity="none")
IntId	t8Raw (description="D1/D2 temperature sensor", quantity="none")
IntId	t9Raw (description="D3 temperature sensor", quantity="none")

7.15. Aux Product Level - Herschel Telecommand History Product

<i>product (type="auxTch", description="Herschel Telecommand History Product")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")

StringParameter	description (description="Name of this product")	
StringParameter	instrument (description="Instrument attached to this product")	
StringParameter	modelName (description="Model name attached to this product")	
DateParameter	startDate (description="Start date of this product")	
DateParameter	endDate (description="End date of this product")	
StringParameter	formatVersion (description="Version of product format")	
StringParameter	telescope (description="Name of telescope")	
StringParameter	author (description="Author of the Data")	
LongParameter	odNumber (description="Operational day number")	
Columns		
table dataset	(name="CommandsTable", description="null")	
Metadata		
Columns		
LongId	tcIndex	(description="Telecommand Index Key", quantity="none")
LongId	tcId	(description="HCSS Telecommand ID", quantity="none")
StringId	name	(description="TC name from MIB", quantity="none")
StringId	desc	(description="TC description", quantity="none")
StringId	seq	(description="Parent sequence name", quantity="none")
LongId	releaseTime	(description="Release Time", quantity="TAI")
LongId	executionTime	(description="Execution time", quantity="TAI")
StringId	staticPtvCheck	(description="Static PTV check state", quantity="none")
StringId	dynamicPtvCheck	(description="Dynamic PTV check state", quantity="none")
StringId	cevCheck	(description="CEV check state", quantity="none")
StringId	group	(description="Group flag value", quantity="none")
StringId	block	(description="Block flag value", quantity="none")
StringId	interlockStatus	(description="Interlock status", quantity="none")
StringId	sourceType	(description="Source type", quantity="none")
StringId	source	(description="Source workstation ID", quantity="none")
LongId	updateTime	(description="Update time", quantity="TAI")
StringId	verificationStatus	(description="Verification status", quantity="none")
	()	
table dataset	Dataset similar to the one above with (name="ParametersTable", description="null")	
	()	
table dataset	Dataset similar to the one above with (name="BitPatternTable", description="null")	

7.16. Aux Product Level - Herschel Time Correlation Product

<i>product (type="auxTimec", description="Herschel Time Correlation Product")</i>			
<i>Metadata</i>			
StringParameter	type (description="Product Type Identification")		
StringParameter	creator (description="Generator of this product")		
DateParameter	creationDate (description="Creation date of this product")		
StringParameter	description (description="Name of this product")		
StringParameter	instrument (description="Instrument attached to this product")		
StringParameter	modelName (description="Model name attached to this product")		
DateParameter	startDate (description="Start date of this product")		
DateParameter	endDate (description="End date of this product")		
StringParameter	formatVersion (description="Version of product format")		
StringParameter	telescope (description="Name of telescope")		
StringParameter	author (description="Author of the Data")		
<i>Columns</i>			
<i>table dataset (name="TimeCorrTable", description="null")</i>			
<i>Metadata</i>			
<i>Columns</i>			
<i>LongId</i>	recordTime (description="TAI Time key index", quantity="TAI")		
<i>LongId</i>	scet (description="SCET Time UTC Reference", quantity="UTC")		
<i>LongId</i>	ctr (description="CTR Onboard Central Time Reference TAI (CUC format)", quantity="TAI")		
<i>LongId</i>	corScet (description="Correlated SCET Time UTC Reference", quantity="UTC")		
<i>DoubleId</i>	gradient (description="Gradient of the coefficient", quantity="none")		
<i>DoubleId</i>	offset (description="Offset of the coefficient", quantity="none")		
<i>ByteId</i>	validAccuracy (description="Accuracy and validity flag of the parameters", quantity="none")		
<i>ShortId</i>	numTimeCouples (description="Number of time couples", quantity="none")		
<i>ByteId</i>	tcoMode (description="Time Correlation Mode", quantity="none")		
<i>ByteId</i>	resetCheckStatus (description="Status of OBT rest checking", quantity="none")		
<i>ByteId</i>	msbMaskStatus (description="Status of OBT MSB masking", quantity="none")		
<i>LongId</i>	resetCheckSpid (description="SPID of TM packet used for OBT reset checking", quantity="none")		

7.17. Aux Product Level - Herschel Uplink Product

<i>product (type="auxUpl", description="Herschel Uplink Product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	telescope (description="Name of telescope")
StringParameter	author (description="Author of the Data")
LongParameter	obsid (description="Observation ID")
LongParameter	odNumber (description="Operational day number")
<i>Columns</i>	
<i>table dataset</i>	<i>(name="ProposalData", description="null")</i>
<i>Metadata</i>	
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsRequestId (description="Observation Request Identifier")
StringParameter	proposal (description="Proposal")
LongParameter	proposalNumId (description="Proposal Number Identifier")
LongParameter	propVersion (description="Proposal Version")
StringParameter	propCategory (description="Proposal Category")
StringParameter	propScienceCategory (description="Proposal Science Category")
StringParameter	propTitle (description="Proposal Title")
StringParameter	propPI (description="Proposal P.I.")
StringParameter	proposerComment (description="Proposal Comment")
DoubleParameter	requestTime (description="Proposal Requested Time")
DoubleParameter	timeAllocPriority1 (description="Time allocated of priority 1 time")
DoubleParameter	timeAllocPriority2 (description="Time allocated of priority 2 time")
LongParameter	technivalEvaluation (description="Status of technical evaluation")
StringParameter	technicalEvalComment (description="Comment written when the proposal was technically evaluated")
StringParameter	propCoI1 (description="Proposal CoI")
StringParameter	propCoI2 (description="Proposal CoI")
StringParameter	propCoI3 (description="Proposal CoI")
StringParameter	propCoI4 (description="Proposal CoI")
StringParameter	propCoI5 (description="Proposal CoI")

StringParameter	propCoI6 (description="Proposal CoI")
StringParameter	propCoI7 (description="Proposal CoI")
StringParameter	propCoI8 (description="Proposal CoI")
StringParameter	propCoI9 (description="Proposal CoI")
StringParameter	propCoI10 (description="Proposal CoI")
StringParameter	propCoI11 (description="Proposal CoI")
StringParameter	propCoI12 (description="Proposal CoI")
StringParameter	propCoI13 (description="Proposal CoI")
StringParameter	propCoI14 (description="Proposal CoI")
StringParameter	propCoI15 (description="Proposal CoI")
StringParameter	propCoI16 (description="Proposal CoI")
StringParameter	propCoI17 (description="Proposal CoI")
StringParameter	propCoI18 (description="Proposal CoI")
StringParameter	propCoI19 (description="Proposal CoI")
StringParameter	propCoI20 (description="Proposal CoI")
StringParameter	propCoI21 (description="Proposal CoI")
StringParameter	propCoI22 (description="Proposal CoI")
StringParameter	propCoI23 (description="Proposal CoI")
StringParameter	propCoI24 (description="Proposal CoI")
StringParameter	propCoI25 (description="Proposal CoI")
StringParameter	propCoI26 (description="Proposal CoI")
StringParameter	propCoI27 (description="Proposal CoI")
StringParameter	propCoI28 (description="Proposal CoI")
StringParameter	propCoI29 (description="Proposal CoI")
StringParameter	propCoI30 (description="Proposal CoI")
StringParameter	propCoI31 (description="Proposal CoI")
StringParameter	propCoI32 (description="Proposal CoI")
StringParameter	propCoI33 (description="Proposal CoI")
StringParameter	propCoI34 (description="Proposal CoI")
StringParameter	propCoI35 (description="Proposal CoI")
StringParameter	propCoI36 (description="Proposal CoI")
StringParameter	propCoI37 (description="Proposal CoI")
StringParameter	propCoI38 (description="Proposal CoI")
StringParameter	propCoI39 (description="Proposal CoI")
StringParameter	propCoI40 (description="Proposal CoI")
StringParameter	propCoI41 (description="Proposal CoI")
StringParameter	propCoI42 (description="Proposal CoI")
StringParameter	propCoI43 (description="Proposal CoI")
StringParameter	propCoI44 (description="Proposal CoI")
StringParameter	propCoI45 (description="Proposal CoI")
StringParameter	propCoI46 (description="Proposal CoI")
StringParameter	propCoI47 (description="Proposal CoI")

StringParameter	propCoI48 (description="Proposal CoI")
StringParameter	propCoI49 (description="Proposal CoI")
StringParameter	propCoI50 (description="Proposal CoI")
StringParameter	propCoI51 (description="Proposal CoI")
StringParameter	propCoI52 (description="Proposal CoI")
StringParameter	propCoI53 (description="Proposal CoI")
StringParameter	propCoI54 (description="Proposal CoI")
StringParameter	propCoI55 (description="Proposal CoI")
StringParameter	propCoI56 (description="Proposal CoI")
StringParameter	propCoI57 (description="Proposal CoI")
StringParameter	propCoI58 (description="Proposal CoI")
StringParameter	propCoI59 (description="Proposal CoI")
StringParameter	propCoI60 (description="Proposal CoI")
StringParameter	propCoI61 (description="Proposal CoI")
StringParameter	propCoI62 (description="Proposal CoI")
StringParameter	propCoI63 (description="Proposal CoI")
StringParameter	propCoI64 (description="Proposal CoI")
StringParameter	propCoI65 (description="Proposal CoI")
StringParameter	propCoI66 (description="Proposal CoI")
StringParameter	propCoI67 (description="Proposal CoI")
StringParameter	propCoI68 (description="Proposal CoI")
StringParameter	propCoI69 (description="Proposal CoI")
StringParameter	propCoI70 (description="Proposal CoI")
StringParameter	propCoI71 (description="Proposal CoI")
StringParameter	propCoI72 (description="Proposal CoI")
StringParameter	propCoI73 (description="Proposal CoI")
StringParameter	propCoI74 (description="Proposal CoI")
StringParameter	propCoI75 (description="Proposal CoI")
StringParameter	propCoI76 (description="Proposal CoI")
StringParameter	propCoI77 (description="Proposal CoI")
StringParameter	propCoI78 (description="Proposal CoI")
StringParameter	propCoI79 (description="Proposal CoI")
StringParameter	propCoI80 (description="Proposal CoI")
StringParameter	propCoI81 (description="Proposal CoI")
StringParameter	propCoI82 (description="Proposal CoI")
StringParameter	propCoI83 (description="Proposal CoI")
StringParameter	propCoI84 (description="Proposal CoI")
StringParameter	propCoI85 (description="Proposal CoI")
StringParameter	propCoI86 (description="Proposal CoI")
StringParameter	propCoI87 (description="Proposal CoI")
StringParameter	propCoI88 (description="Proposal CoI")
StringParameter	propCoI89 (description="Proposal CoI")

StringParameter	propCoI90 (description="Proposal CoI")
StringParameter	propCoI91 (description="Proposal CoI")
StringParameter	propCoI92 (description="Proposal CoI")
StringParameter	propCoI93 (description="Proposal CoI")
StringParameter	propCoI94 (description="Proposal CoI")
StringParameter	propCoI95 (description="Proposal CoI")
StringParameter	propCoI96 (description="Proposal CoI")
StringParameter	propCoI97 (description="Proposal CoI")
StringParameter	propCoI98 (description="Proposal CoI")
StringParameter	propCoI99 (description="Proposal CoI")
StringParameter	propCoI100 (description="Proposal CoI")
StringParameter	propCoI101 (description="Proposal CoI")
StringParameter	propCoI102 (description="Proposal CoI")
StringParameter	propCoI103 (description="Proposal CoI")
StringParameter	propCoI104 (description="Proposal CoI")
StringParameter	propCoI105 (description="Proposal CoI")
StringParameter	propCoI106 (description="Proposal CoI")
StringParameter	propCoI107 (description="Proposal CoI")
StringParameter	propCoI108 (description="Proposal CoI")
StringParameter	propCoI109 (description="Proposal CoI")
StringParameter	propCoI110 (description="Proposal CoI")
StringParameter	propCoI111 (description="Proposal CoI")
StringParameter	propCoI112 (description="Proposal CoI")
StringParameter	propCoI113 (description="Proposal CoI")
StringParameter	propCoI114 (description="Proposal CoI")
StringParameter	propCoI115 (description="Proposal CoI")
StringParameter	propCoI116 (description="Proposal CoI")
StringParameter	propCoI117 (description="Proposal CoI")
StringParameter	propCoI118 (description="Proposal CoI")
StringParameter	propCoI119 (description="Proposal CoI")
<i>Columns</i>	

Part II. Appendices

Appendix A. Compulsory metadata keywords in Herschel scientific products

The following table lists the main Herschel metadata keywords, their description, and their expression in FITS.

Herschel Name	DP	Description	FITS-Name
aorLabel		AOR label as entered in HSpot	AOR
aot		AOT Identifier	AOT
creationDate		Date of product creation	DATE
creator		The name of the software that created the product	CREATOR
cusMode		CUS observation mode	CUSMODE
dec		Actual Declination of pointing	DEC
decNominal		requested declination of pointing	DEC_NOM
description		Full name of product	DESC
endDate		End date of observation	DATE-END
equinox		equinox of celestial coordinate system	EQUINOX
formatVersion		Version of product format	FORMATV
instrument		Instrument name	INSTRUME
level		Product level	LEVEL
missionConfig		Mission configuration	MISSIONC
naifId		SSO NAIF identifier	NAIFID
object		target name	OBJECT
observer		name of observer	OBSERVER
obsid		Observation Identifier	OBS_ID
obsMode		Observation mode name'	OBS_MODE
odNumber		operational day number	ODNUMBER
origin		site that created the product	ORIGIN
pointingMode		Pointing mode identifier	POINTMOD
posAngle		Position Angle of pointing	POSANGLE
proposal		proposal name	PROPOSAL
ra		Actual Right Ascension of pointing	RA
raDeSys		Coordinate reference frame for the RA and DEC	RADESYS
raNominal		requested RA of pointing	RA_NOM
startDate		Start date of observation	DATE_OBS and DATE-OBS
telescope		Name of telescope	TELESCOP
type		Product type identification	TYPE

Appendix B. Quality flags included in the Quality Control Summary Report

Table B.1. Auxiliary quality flags.

FITS keyword	Description
RADECDF	RA, DEC discrepancy
RADECACC	RA, DEC accuracy
WARMBETA	Warning: observation at warm beta angle
WBETA4	Warning: observation immediately preceded by 4-hours warm beta period
WBETA10	Warning: observation preceded by 10-hours warm beta period
GYRATTSP	Suspicious quality of the attitude reconstruction.

Table B.2. HIFI Class 1 flags: indicate that the data is partially or totally unusable for science.

FITS keyword	Description
CMDFAIL	Max number of command acceptance or execution failures found in the telemetry
FASTQDC	Fast Quantization Distortion Correction processed. Not optimal
HOTCOLD	Data measured from hot and cold loads not sufficient for hot/cold calibration
HRSASIC	One or more ASICs configuration problems in HRS-H
HRSVASIC	One or more ASICs configuration problems in HRS-V
HSDFAIL	Failure in HifiSpectrumDataset construction
INTENCAL	Intensity calibration not or not for all spectra carried through
LOFPATT	Pattern observed for the LoFrequency not as expected in all datasets
LOUDSB	The LOU was disabled during this observation, science data are likely unusable
LOUDSB1B	LOU has been potentially deactivated for one active band
NOFRQCAL	All COMBs have failed to be fitted
NOPOWCOR	No Power Correction could be processed
NOQDC	No Quantization Distortion Correction could be processed
ONOFFPRO	More ON- than OFF-datasets found in the data - not all ON-datasets could be processed with OFF-dataset(s)
TSYSFLAG	Hot/cold calibration not successful
UNKBB	Bbtype not known

FITS keyword	Description
WRGFRQSC	At least one Science data has been affected from failing frequency calibration due to a COMB fit failure

Table B.3. HIFI Class 2 flags: refer to data that is usable for science, but that in some cases could still be affected by residual instrument artefacts.

FITS keyword	Description
ANOMLPTG	The intended and the computed pointing differ by more than three times the APE (the ratio is given in the value column)
BADPIXEL	Max number of channels marked as BAD due repeated saturations
CALERR	Problem in the calibration-tree: APE data not present in calibration tree. APE check not performed.
DARKSATR	Spectrum contains saturated dark
DECONF	The deconvolution could not be performed on at least one polarization
FPUMIXC	FPU Check: Mixer current is Out Of Limit
HEBHAPPL	Unable to apply the HEB electric standing wave correction to H polarisation
HEBVAPPL	Unable to apply the HEB electric standing wave correction to V polarisation
LESSDATA	Less data found than expected
LOTUNING	Failure in LO tuning status
LOUCUR	LO multiplier current deviates from zero, which is indicating of possible LOU impurity
LRGTHROW	The frequency throw is large compared to the HRS bandwidth
MOREDATA	More data found than expected
NOBASELN	No off baseline could be calculated
NOFFSUBS	No off baseline subtraction carried through since no off baseline data available
NOSUBST	Reference subtraction not processed - maybe identification of phases not successful
NOVELOC	No or not sufficient velocity information available
ONOFFLEN	Some ON/OFF dataset pairs found with unequal number of rows
PHASCHEC	Not all phase checks could be carried through or completed
PLTFRMNG	Platforming present in overlapping subbands
POINTFAL	Failure to associate pointing values to the spectra
RMSHV	One of the two polarisations is noisier than the other by more than $\sqrt{2}$ %. Their noise ratio is given in the value column.
RMSHVST	The noise ratio of the two polarisations exceeds that expected from the measured Tsys ratio by

FITS keyword	Description
	more than 10%. Their ratio is given in the value column.
RMSNOISE	The computed noise rms exceeds the predicted one by more than $\sqrt{2}$. Their ratio is given in the value column
SATPIXEL	Maximum number of saturated pixel detected in a single spectrum
SPUR	Spur lines detected in the cold spectra
WRONGAVG	Some data has been lost while computing the average over many datasets
ZEROINCF	Max percentage of DFs having zero values in the HRS Correlation Factors

Table B.4. HIFI Class 3 flags: refer to data that is usable for science with no particular further action

FITS keyword	Description
BADDATDC	Bad (corrupted) science data discarded
BADDATL2	Remaining bad (corrupted) science data at Level 2
BADHCDC	Bad (corrupted) hc data discarded
NWEIGHTS	Problem occurred while computing channel-dependent weights. No weights added.

Table B.5. Quality metadata for PACS

FITS keyword	Description
BSPUBUF	Blue photometer total number of SPUBuffer not expected
BSPUFAI	Percentage of blue photometer failed SPU above threshold
BSPUMIS	Percentage of blue photometer missing SPU above threshold
DMANOG1	DecMec Anomaly 70 - supply group 1 (Red band) -without data loss
DMANOG2	DecMec Anomaly 70 - supply group 2 (Red band) -without data loss
DMANOG3	DecMec Anomaly 70 - supply group 3 (Blue band) -without data loss
DMANOG4	DecMec Anomaly 70 - supply group 4 (Blue band) -without data loss
DMANOG1L	DecMec Anomaly 70 - supply group 1 (Red band) - WITH data loss
DMANOG2L	DecMec Anomaly 70 - supply group 2 (Red band) - WITH data loss
DMANOG3L	DecMec Anomaly 70 - supply group 3 (Blue band) - WITH data loss
DMANOG4L	DecMec Anomaly 70 - supply group 4 (Blue band) - WITH data loss
FSPUBLUE	Spec. Failed SPU Buffer Blue

FITS keyword	Description
FSPURED	Spec. Failed SPU Buffer Red
POINTACC	Estimate in arcsec of mean error of Pointing during observation above tolerance
POINTOFF	Mean Pointing offset in arcsec with respect to coordinates provided by proposer out of limits
POINTSTA	Percentage of observing time with Pointing accuracy above threshold
RPSPUBUF	Red photometer total numbers of SPUBuffer not expected
RSPUFAI	Percentage of red photometer failed SPU above threshold
RSPUMIS	Percentage of red photometer missing SPU above threshold
SPEEDBMP	Speed Bump(s) detected
SPGFAILB	Pipeline failed in the blue channel
SPGFAILR	Pipeline failed in the red channel

For the SPIRE instrument the assessment of the observation is given in the comment field of the Quality Control Summary Report.

Appendix C. Miscellaneous, specific or optional metadata keywords.

Table C.1. Miscellaneous, specific or optional metadata keywords.

Metadatum	FITS keyword	Description
calFileVersion	CALFILEV	Calfile version number.
m	NRASTCOL	HSPOT: no. raster cols: valid for rasters.
n	NRASTLIN	HSPOT: no. raster lines: valid for rasters.
productNotes	PRODNOTE	Product notes.
queryTime	QUERYTME	time of the database query to produce this version of the calibration file.
queryTimeAsString	QURYTMST	time of the database query to produce this version of the calibration file.
time	FINETIME	Packet time.

Appendix D. Metadata typos and duplications found in Herschel products.

Table D.1. Metadata typos and duplications in Herschel products.

Metadatum	FITS keyword	Description
Apid	APID	Application Programme Identifier duplication.
band	BAND	SLICE_INFO: spectral band (R1 B2A B B3A)
calFileVersion	CALFILEV	Typo, the right metadatum is calFileVersion.
creationDate_ILLEGAL_FORMAT	DATE	Date of product creation (obsolete date format).
Duration	EXPTIME	duration of the observation in seconds
Observing mode	OBSMODE	Observation mode name duplication (Note that the corresponding FITS keyword is non-standard as well, instead of the more common OBS_MODE).
pmDEC	PMDEC	Target's proper motion Dec (arcsec/yr).
pmRA	PMRA	Target's proper motion RA (arcsec/yr).
processingMode	PROCMODE	SPG pipeline processing mode selected.